

HP 3000 Series II Computer System



System Error Messages and Recovery

Reference Manual



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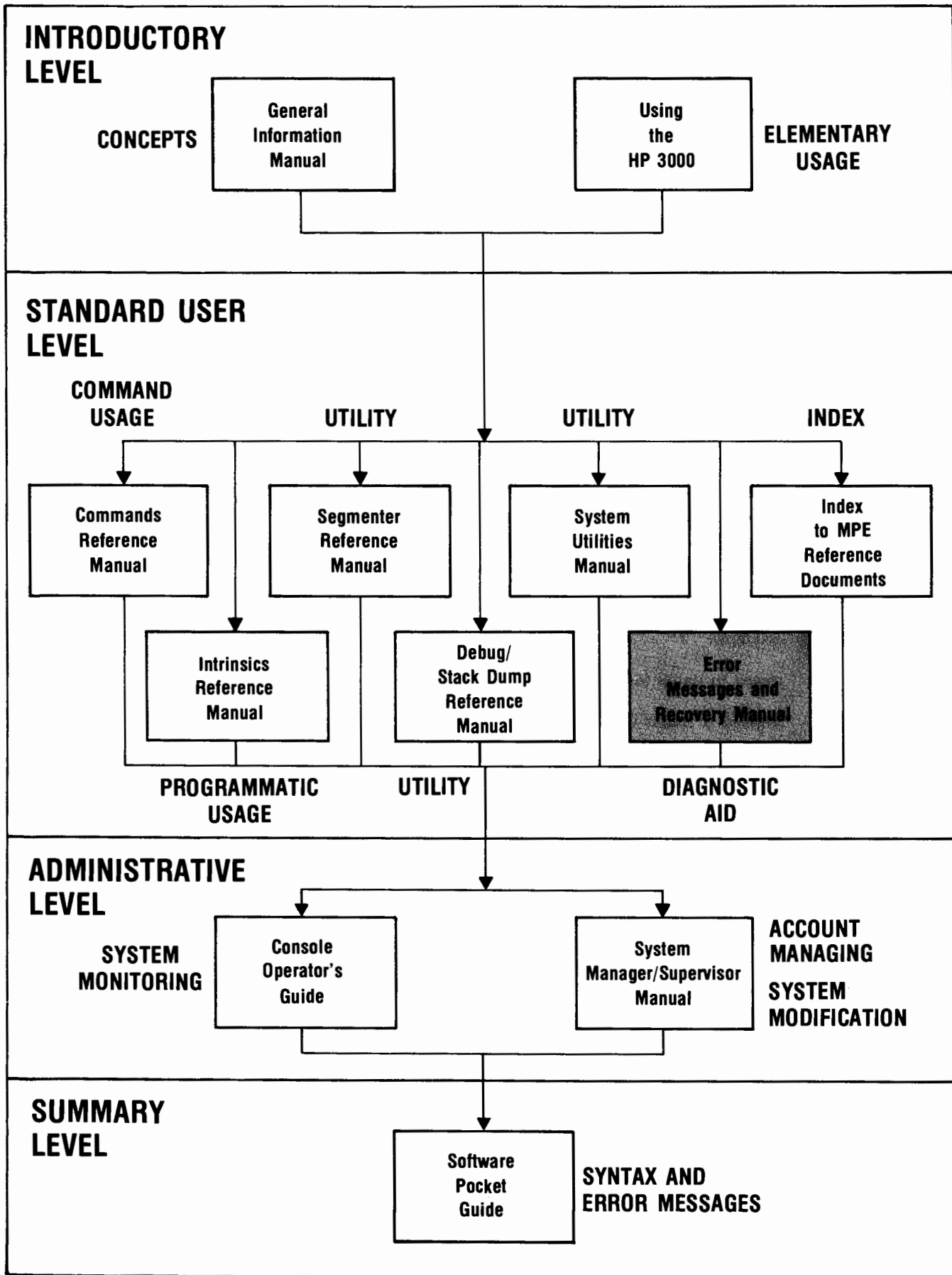
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MANUAL PLAN



CONVENTIONS USED IN THIS MANUAL

NOTATION

DESCRIPTION

[]	An element inside brackets is <i>optional</i> . Several elements stacked inside a pair of brackets means the user may select any one or none of these elements. Example: $\begin{bmatrix} A \\ B \end{bmatrix}$ user may select A or B or neither
{ }	When several elements are stacked within braces the user must select one of these elements. Example: $\begin{Bmatrix} A \\ B \\ C \end{Bmatrix}$ user must select A or B or C.
italics	Lowercase italics denote a parameter which must be replaced by a user-supplied variable. Example: CALL <i>name</i> <i>name</i> one to 15 alphanumeric characters.
underlining	Dialogue: Where it is necessary to distinguish user input from computer output, the input is underlined. Example: NEW NAME? <u>ALPHA1</u>
superscript C	Control characters are indicated by a superscript C Example: Y ^C
<i>return</i>	<i>return</i> in italics indicates a carriage return
<i>linefeed</i>	<i>linefeed</i> in italics indicates a linefeed
. . .	A horizontal ellipsis indicates that a previous bracketed element may be repeated, or that elements have been omitted.

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INTRODUCTION

SECTION

I

This manual documents all the error messages that can be displayed during operation of the HP 3000 series II system. The system is documented in a series of manuals. Each manual contains a list of error messages applicable to the language, utility or operating system documented. However, the message you need may not always be in the manual you are using. For example, while executing a FORTRAN program, an internal call to the compiler library could cause an error. The error message issued would be a compiler library message, not a FORTRAN message. This manual, by providing all messages in one book, removes the need to search through more than one manual to determine the cause of an error.

Each message is listed and wherever possible the cause of the error is provided under the heading "Meaning". Often, knowing the cause of an error is sufficient in order to correct the problem. Still, wherever possible, this manual provides suggested corrective action under the heading "Action". Some systems issue numeric codes either in addition to or instead of the descriptive error message. In this case, the numeric code is provided under the heading "Error Number" or "Error Code."



FUNCTIONAL DIVISIONS

The messages in this manual are grouped into six sections determined by their general function:

- | | |
|-------------|---|
| Section II | MPE Operating System Messages – includes MPE Intrinsics and Command Interpreter messages, including the :STORE and :RESTORE message, plus the system messages that can be issued during command execution. |
| Section III | Language Error Messages – includes all messages issued by the HP 3000 languages: SPL, FORTRAN, COBOL, RPG, and BASIC. |
| Section IV | Data Base Management Messages – the messages issued by IMAGE/3000 and QUERY 3000. |
| Section V | Utility Error Messages – includes messages issued by the following utility programs: MPE Segmenter, EDIT/3000, FCOPY/3000, SORT/MERGE/3000, DEBUG/STACK-DUMP, TRACE/3000, SADUTIL, LISTLOG2, DISKED2, PATCH, SLPATCH, and the Compiler Library. |
| Section VI | Data Communications Messages – includes messages issued by the Real-Time Programmable Controller and the 2780/3780 Emulator. |
| Section VII | Console Operator/System Supervisor Messages – includes status and I/O messages sent to the system console, cold load messages, and messages resulting from system failure. |

Since a File Information Display is issued as an additional aid in conjunction with many messages where files are affected, this display is described in a separate appendix (Appendix A).

INDEX TO MESSAGES AND CODES

Two indexes are provided to the tables in this manual: an Error Code index and an Error Message index. The Error Code index lists each error code in ascending numeric order followed by the system or subsystem that issues the error code and the table where an explanation can be found. Similarly, the error messages are listed in alphabetic order in the Error Message index followed by the system or subsystem that issues the message and the table where it is described.

The index to numeric codes is particularly useful since there is much duplication of codes. For example, error code 1 is issued by each of the languages and in the case of the BASIC Interpreter, during four different stages of its execution; error code 1 is also issued by the MPE Command Interpreter, as an Intrinsic message and is the code for a system failure message. Since a numeric code without a corresponding message can be very confusing, the index provides a complete set of error tables in which to look for solutions.

The alphabetic list of error messages provides a ready reference to the system that issued the message and to the table in this manual where the message is described.

MPE OPERATING SYSTEM MESSAGES

SECTION

II

The messages issued in case of errors that occur during MPE operation are described in this section.

Errors occurring during execution of commands take two forms: errors and warnings.

Command errors	Table 2-1
Command warnings	Table 2-2

Conditions that terminate or affect sessions or jobs are issued as system messages:

System messages	Table 2-3
-----------------	-----------

Errors that occur during calls to MPE intrinsics are listed in the following tables:

Program errors	Table 2-4
Intrinsic errors	Table 2-5
Run-time errors	Table 2-6
File system errors	Table 2-7
Loader errors	Table 2-8
Create errors	Table 2-9
Activate error	Table 2-10
Suspend errors	Table 2-11
Mycommand error	Table 2-12
Lockglorin error	Table 2-13

Finally, a special set of messages issued by the :STORE and :RESTORE commands are listed separately in two tables:

:STORE errors	Table 2-14
:RESTORE errors	Table 2-15

MPE COMMAND INTERPRETER MESSAGES

The messages issued by the command interpreter are either error messages or warning messages. When an error message is issued, the command is not executed; a warning message indicates a condition that does not suppress command execution but may cause problems.

COMMAND INTERPRETER ERROR MESSAGES

When MPE detects an error during interpretation or execution of an MPE command, it suppresses execution of that command and displays an error message on the session/job listing device in the format shown below:

ERR *errnum* [,*detail*] [*message*]

errnum A number ranging from 0 to 250, identifying one of the errors described in table 2-2. These error numbers are grouped as follows:

0 - 19:	General errors not related to specific command parameters.
20 - 47:	Errors relating to command parameter syntax.
48 - 99:	Errors relating to specific commands.
100 - 199:	Errors encountered by the File Management System, or within the file directory.

- 200 - 249: Errors encountered by the CREATE intrinsic that creates a process or by the MPE Loader.
- 250: Error encountered by the MPE Segmenter.

<i>detail</i>	A number that (unless otherwise stated in table 2-1) refers to the erroneous parameter element in the command. When counting parameter elements, count from the left, beginning with the element immediately following the command name counted as 1; consider every delimiter, including equal signs and omitted items.
<i>message</i>	A message describing the error, also shown in table 2-1. In sessions, this message is optional and may be requested by entering any character other than a carriage return following:

ERR *errnum* [,*detail*]

In batch jobs, the message appears automatically. When an error occurs while you are trying to initiate a job or session, the error number is printed but no *message* appears (jobs) or can be requested (sessions).

When the error occurs during an interactive session, MPE suppresses execution of the erroneous command, displays an error indication (*errnum* parameter, sometimes followed by *detail* parameter) showing the type of error, and returns control to your terminal. If you desire an explanation of the error, you can request it by entering any character other than a carriage-return immediately after the error indication. In response, MPE displays the error message (*message* parameter) on the next line. (For further discussion of this message, see table 2-1.) If you do not require an explanation of this error, enter a carriage-return directly after the error indication. MPE then prints a colon, prompting you for another MPE command.

When the error occurs during a batch job and you have not preceded the erroneous command by a :CONTINUE command, MPE suppresses execution of the erroneous command, prints the entire error message (*errnum*, *detail*, and *message* parameters) on your standard listing device, ignores all subsequent commands in the job, and aborts the job.

COMMAND INTERPRETER WARNING MESSAGES

When certain unusual but generally non-fatal conditions arise during interpretation or execution of an MPE command, various warning messages may appear on the session/job list device. Most such messages do not interrupt sessions nor terminate batch jobs; a session/job generally continues immediately following the warning message. The message itself appears simply as:

message

The Command Interpreter Warning Messages are summarized in table 2-2.

Table 2-1. Command Interpreter Error Messages

NUMBER	MESSAGE	MEANING	ACTION
0	JOB NOT YET DEFINED	The first command entered was not :JOB, HELLO, or :DATA, required to initialize an input stream.	Enter such a command.
1	UNKNOWN COMMAND	The command entered was not recognized as a legal MPE command.	Enter a correct command.
2	ABNORMAL PROGRAM TERMINATION	The user's program terminated with an error condition (the high-order bit of the job control word set). (Calling the QUIT or QUITPROG intrinsic, setting Bit 0 of the job control word to 1, issuing an :ABORT command during a break, or killing a process does this; HP subsystems set this state when detecting serious errors).	Debug and re-run program.
3	WRONG (JOB/SESSION) MODE	This command is not permitted in the defined job or session mode.	Enter a correct command.
4	INSUFFICIENT CAPABILITY	The user does not have the capability required to execute this command or one of its particular options.	Check user's capability against command requirements.
5	TOO MANY PARAMETERS	The command image contained too many parameters or exceeded 255 characters.	Check the parameter list and re-enter the command correctly.
6	INSUFFICIENT PARAMETERS	Required parameters were omitted from the command parameter list.	Check the parameter list and re-enter the command correctly.
7	MISSING COLON	This command, encountered in a batch job, did not contain a colon as the first character of the command image. (Continuation lines must also have such colons.)	Correct the command and re-run the job.
8	ILLEGITIMATE ACCESS	Access to MPE was denied because one of the following conditions occurred: 1. The user did not specify a log-on group and also had no home group. 2. The account, user, specific group, or home group does not exist. 3. A password is required by the account, user, or group (other than home group), and the user either supplied no password or supplied an incorrect one.	Specify a log-on group when re-entering the log-on command. See system manager, supervisor, or operator. Check to ensure that the correct password is supplied; if this fails, contact the system manager or account manager.
9	UNACCEPTABLE DEVICE	A :HELLO or :JOB command was entered on a device not currently configured to accept jobs/sessions; a :DATA command was entered on a device that does not presently accept data; or :HELLO was entered on a non-interactive terminal.	Initialize input stream on an appropriate device.

Table 2-1. Command Interpreter Error Messages (Continued)

NUMBER	MESSAGE	MEANING	ACTION
10	INSUFFICIENT RESOURCES	The operation requested was rejected because sufficient resources (data segments, code segment table entries, process control blocks, and so forth) were not available for it.	Request operation when it is more likely that such resources will be available, or see system supervisor user.
11	COMMAND NOT YET IMPLEMENTED	This command entered is not legal in this version of MPE.	
12	NOT ALLOWED PRO-GRAMMATICALLY	This command cannot be entered with the COMMAND intrinsic.	
13	VDD FULL	A :DATA command was entered, but the virtual device directory was full and could not accomodate more :DATA files.	Re-enter command later, or see system supervisor.
14	JOB OVERLOAD	A request for job scheduling was not accepted because the Job Master Table is full.	Request scheduling later, or see system supervisor.
15	SUBSYSTEM NOT FOUND	An MPE subsystem was invoked, but does not exist in the permanent file directory.	See system manager.
16	DISC I/O ERROR	A disc input/output error occurred during processing of a command.	Depending on the nature of the error, the command may succeed when re-issued.
20	SYNTAX ERROR	A delimiter in the parameter list is not permitted in the command, or is not permitted at the point where it was detected. When a qualifying number is shown (detail), the bad delimiter is adjacent to the indicated parameter element (usually following it).	Re-enter the command correctly.
21	PARAMETER NOT OPTIONAL	A parameter was omitted in a position where the parameter is required.	Re-enter the command correctly.
22	ILLEGAL PARAMETER	A parameter was not recognized as legal.	Check the parameter list, and re-enter the command correctly.
23	PARAMETER OUT OF BOUNDS	The value specified for the indicated parameter was not within the allowable range.	Refer to the command description for the permissible range, and re-enter the command correctly.
24	ILLEGAL PARAMETER IN THIS CONTEXT	An otherwise legitimate parameter is not permitted in the specified format of the command, or it conflicts with some previous specification in the command.	Check the command format, and re-enter the command correctly.

Table 2-1. Command Interpreter Error Messages (Continued)

NUMBER	MESSAGE	MEANING	ACTION
25	DUPLICATE PARAMETER	The command was rejected because the same parameter appeared twice in the parameter list.	Re-enter the command without the duplicate parameter.
26	ILLEGAL KEYWORD	A keyword in a command was not recognized as legal.	Check the keyword, and re-enter the command correctly.
27	DUPLICATE KEYWORD	The command was rejected because the same keyword appeared twice in the parameter list.	Re-enter the command without the duplicate keyword.
28	ILLEGAL KEYWORD IN THIS CONTEXT	An otherwise legitimate keyword is not permitted in the specified format of the command, or it conflicts with some previous specification in the command.	Check the command format, and re-enter the command correctly.
29	ILLEGAL NAME	A syntactically-invalid name was included in the command; most names are limited to eight alphanumeric characters or less, beginning with a letter.	Check the format of the name.
30	INVALID NUMBER	A syntactically-invalid number appeared in the command. This could be caused by a non-numeric character (other than a leading "+", "=", or "%"); an "8" or "9" for an octal number; or a number that is too large.	Check the parameter list, and re-enter the command correctly.
48	TERMINAL/TYPE INCOMPATIBILITY	For a :HELLO or :JOB command, the TERM=term-type parameter is not legitimate for the terminal being used.	Check the terminal type versus the termtype specified.
49	BAD OUTCLASS	For a :JOB command, the OUTCLASS=outclass parameter is not a legitimate device specification, or the device (device class) does not support serial output.	Check the device requested against the outclass parameter.
50	MINIMUM CAPABILITIES OMITTED	One of the following violations occurred: 1. SM was not included for the SYS account. 2. Neither IA nor BA was included. 3. A system manager or account manager attempted to cancel his own manager capability.	Check the caplist parameter, and re-enter the command properly.
51	FILESPEC LIMIT BELOW CURRENT COUNT	A filespec limit was specified that was less than the current amount allocated.	Re-specify the limit correctly.
52	CAPABILITY EXCEEDS ACCOUNT'S	For an account manager command to create or alter a group or user, the capability specified for group, user, or local attributes is not a subset of the accounts's capability or local attributes.	Determine account's capability re-specify user's capability within these limits.

Table 2-1. Command Interpreter Error Messages

NUMBER	MESSAGE	MEANING	ACTION
53	MAXPRI EXCEEDS ACCOUNT'S	For an account manager command to create or alter a user, specification of the user's maximum priority is higher than the account's maximum priority.	Determine account's maximum priority, and re-specify user's within these limits.
54	LIMIT(S) EXCEEDS ACCOUNT'S	Filespace, central processor time, and/or connect limit greater than the corresponding limits for the account were specified.	Determine these values for the account, and re-specify user's limits accordingly.
55	ILLEGAL FILE NAME	In a command reference for a file, an illegal file name appeared. The syntax for file names is: filename [/lockword] [.gname[.aname]] Each name or lockword consists of eight characters or less, beginning with a letter.	Check this syntax against the file name specified, and re-enter the command.
56	FILE EQUATION TABLE FULL	The last :FILE command was rejected because no more space existed in the file equation table.	The :RESET command can be used to provide space for additional entries by cancelling existing :FILE commands.
57	BACK FILE REFERENCE NOT FOUND	A previous :FILE command for this job/session was referenced, in the (formal)designator format, but could not be found.	Check :FILE name.
58	TOO MANY BACK FILE REFERENCES	A :FILE command had more than 155 following :FILE commands referring to it via the *formal)designator back-file reference construct.	
59	INVALID FILE DESIGNATOR	The formal file designator in a :FILE or :RESET command was syntactically incorrect.	Re-enter the command with correct syntax.
61	DEVICE OF WRONG TYPE	A device of the wrong type was referenced in a command—for example, output was directed to a card reader or the :STORE command was applied to a non-tape file.	Re-specify, with correct device.
62	DUPLICATE ACCESS SPECIFIED	A modelist:userlist pair appears twice in the same :ALTSEC command (or system manager command) parameter list.	Eliminate this redundancy and re-enter command.
63	ILLEGAL LIBRARY SPECIFIED	In the :PREPRUN and :RUN command, the LIB= library parameter was not specified correctly—only S (system), P (public), and G (group) are permitted entries for this parameter.	Re-enter the command with proper library requested.
64	UNABLE TO ACCESS TERMINAL FILE	The user's job/session could not open \$STDIN	See system supervisor.

Table 2-1. Command Interpreter Error Messages (Continued)

NUMBER	MESSAGE	MEANING	ACTION
66	ILLEGAL DEVICE OR INVALID INPUT SPEED	For the :SPEED command, an illegal inspeed parameter was specified for this device.	Check this parameter against characteristics of device used.
67	ILLEGAL DEVICE OR INVALID OUTPUT SPEED	For the :SPEED command, an illegal outspeed parameter was specified for this device.	Check this parameter against the characteristics of the device used.
68	SUBQUEUE IS LINEAR AND HAS NO QUANTUM	This command attempted to set a time-quantum for a linear subqueue, but quanta can only be changed for circular subqueues.	
69	UNKNOWN SUBQUEUE	The subqueue referenced by this command could not be identified by the system.	Check names of subqueues available.
70	RIN CURRENTLY IN USE	The :FREERIN command did not succeed because the RIN requested was in use.	Wait until the RIN no longer is in use, and re-enter the command.
71	RIN NOT ALLOCATED TO THIS USER	The :FREERIN command attempted to de-allocate a RIN not belonging to the user; only the owner of the RIN can free it.	
72	RIN TABLE FULL	The :GETRIN command was issued, but no RIN's are presently available.	Re-enter command when a RIN is available or see system supervisor.
73	DIRECTORY ERROR	A miscellaneous error was detected in accessing the file directory.	Re-enter the command.
74	INVALID LIST FILE	An improper list file was specified in the command.	Re-specify, naming another file.
75	UNDEFINED JOB NAME	The specified job does not exist, or is in an improper mode for the command (for example, when the :TELL command is applied to a job not in execution).	
76	MESSAGE ROUTING ERROR	An internal routing error occurred; detail indicates the type of error.	Inform system supervisor.
77	TOO MANY FILESETS	Too many filesets were specified in a :RESTORE command. The :RESTORE command requires the following limits for specifying filesets: 10 by account name; and 15 by account and group name; and 20 by account, group, and file name.	Apply more than one :RESTORE against the same tape, using fewer filesets than the limit in each command.
78	IMPROPER TAPE FORMAT	A tape being restored (:RESTORE command) has a valid STORE/RESTORE label, but the information on the tape does not conform to the format of a tape written by the :STORE or :SYSDUMP commands.	Ensure that a proper tape is used.

Table 2-1. Command Interpreter Error Messages (Continued)

NUMBER	MESSAGE	MEANING	ACTION
79	NON-EXISTENT USER	The command specified a user not defined in the system.	Check to ensure that the spelling of the user name, as supposedly recorded in the system is correct. If it is and the user still cannot be referenced, see the system manager user.
80	SPOOFL I/O ERROR	A disc input/output error occurred or the command was unable to successfully obtain spool file disc space. The :STREAM command discontinues processing.	
81	STACK TOO SMALL	The :STREAM command cannot obtain sufficient stack to begin processing.	
82	FACILITY NOT ENABLED	The console operator has not enabled the :STREAM command facility.	
83	BINARY FILE ILLEGAL	The :STREAM command cannot spool binary files.	
100	FILE SYSTEM ERROR	An error was returned from the File System; detail shows the actual File System Error Number, interpreted by referring to Error Codes 20 through 110, (refer to table 2-7). If detail is not displayed, an unexpected end-of-file condition was detected.	
101	UNIT NOT READY	The command specified an input/output unit that was not ready.	Request the operator to ready the unit.
102	NO WRITE RING	The command specified, as an output device, a tape unit with no write-enable ring on the tape.	Request the operator to insert the ring.
103	INCONSISTENT FILE OPERATION	The command was inconsistent with the access type, record type, or device type for the referenced file.	Check for proper consistency.
104	PRIVILEGED FILE VIOLATION	The command attempted unauthorized access to a privileged file.	
105	INSUFFICIENT DISC SPACE	The command requested more disc space than that available.	If possible, resubmit command with less space requested or purge existent files to make available additional space.
106	NON-EXISTENT ACCOUNT	The command referenced an account not defined in the system.	See system manager.
107	NON-EXISTENT GROUP	The command referenced a group not defined in the system.	See system manager.
108	NON-EXISTENT FILE	The command referenced a file not defined in the job temporary or system file domain.	Ensure that the file name was entered correctly.

Table 2-1. Command Interpreter Error Messages (Continued)

NUMBER	MESSAGE	MEANING	ACTION
109	INVALID FILE NAME	The command requested a file with an invalid name.	Check the file name spelling and syntax.
110	DEVICE UNAVAILABLE	The command referenced a device that is not available.	Request availability from the operator, or re-specify the device.
111	INVALID DEVICE SPECIFICATION	The command requested a device with an invalid device specification.	Check the specification used, and re-enter the command.
112	NO PASSED FILE	The command required a passed file, but no file was passed.	
113	EXCLUSIVE VIOLATION	The command required exclusive access to a file already being accessed, or required access to a file to which another process had exclusive access.	
114	LOCKWORD VIOLATION	The command requested a file protected by a lockword, but no lockword (or an incorrect lockword) was supplied.	
115	SECURITY VIOLATION	The command requested a file protected against this access by the MPE File Security System.	
116	DUPLICATE NAME	The attempted creation of an account, group, user, permanent file or temporary file encountered a duplicate name. For files, this could be a duplicate name in the system or job temporary file directory.	
117	DIRECTORY OVERFLOW	The command caused the job temporary file directory or system directory to overflow.	
118	ATTEMPT TO SAVE SYSTEM FILE AS JOB TEMPORARY	The command attempted to save a system file in the job temporary file directory.	Re-enter the command correctly.
119	IN USE: CAN'T BE PURGED	The command attempted to purge a file, group, user, or account that was in use.	Wait until the item referenced is free, and re-enter the command.
120	CREATOR CONFLICT	The :RENAME, :SECURE, :RELEASE, or :ALTSEC command was entered for a file by someone other than the creator of the file; use of these commands is restricted to creator of the file.	
121	GROUP FILESPACE EXCEEDED	The maximum disc space allocatable for the group's files was exceeded.	
122	ACCOUNT FILESPACE EXCEEDED	The maximum disc space allocatable for the account's files was exceeded.	
200	CREATE ERROR	An error has been detected by the CREATE intrinsic; detail indicates the actual CREATE intrinsic error number, (refer to table 2-5).	
201	LOAD ERROR	An error has been detected by the LOAD intrinsic; detail shows the actual loader error number, (refer to table 2-8).	
202	ILLEGAL LIBRARY SEARCH	The command requested an illegal library search.	

Table 2-1. Command Interpreter Error Messages (Continued)

NUMBER	MESSAGE	MEANING	ACTION
203	UNKNOWN ENTRY POINT	The command specified a program entry point that could not be located.	Specify stack size at 512 words or more using STACK=parameter.
204	DATA SEGMENT TOO LARGE	The command required a data segment such that either: 1. The data segment exceeded the system-defined maximum size allowed; or 2. The data segment required, or the maxdata parameter specified, exceeds 32767 words.	
205	STACK SIZE TOO SMALL	Issued when program is executed and STACK=parameter in RUN, :PREP, or :PREPRUN command is less than 511 words or if STACK= is omitted and stacksize is less than minimum stack size estimated by segmenter at run time.	
206	DATA SEGMENT LARGER THAN MAXDATA SPECIFICATION	The command required a data segment larger than the maximum size specified by the user in this case.	
207	ILLEGAL NUMBER OF CODE SEGMENTS	The command required more than 255 code segments or more than the maximum allowed by the system.	
208	INVALID PROGRAM FILE	The command referenced a program file whose filecode or format is incorrect.	
209	CODE SEGMENT TOO LARGE	The command required a code segment larger than the maximum size permitted by the system.	
210	MORE THAN ONE EXTENT IN PROGRAM	The command referenced a program containing more than one disc extent.	
214	SYSTEM SL ACCESS ERROR	A system segmented library access error occurred; detail specifies a File System Error Code shown in table 2-7 (Error Codes 20 through 110). If detail is not displayed an unexpected end-of-file condition was detected.	
215	PUBLIC SL ACCESS ERROR	A public segmented library access error occurred; detail specifies a File System Error Code shown in table 2-7 (Error Codes 20 through 110). If detail is not displayed, an unexpected end-of-file condition was detected.	
216	GROUP SL ACCESS ERROR	A group segmented library access error occurred; detail specifies a File System Error Code shown in table 2-7 (Codes 20 through 110). If detail is not displayed, an unexpected end-of-file condition was detected.	
217	PROGRAM FILE ACCESS ERROR	A program file access error occurred; detail specifies a File System Error Code shown in table 2-7 (Codes 20 through 110). If detail is not displayed, an unexpected end-of-file condition was detected.	
218	LIST FILE ACCESS ERROR	A list file access error occurred; detail specifies a File System Error Code shown in table 2-7 (Codes 20 through 110). If detail is not displayed, an unexpected end-of-file condition was detected.	

Table 2-1. Command Interpreter Error Messages (Continued)

NUMBER	MESSAGE	MEANING	ACTION
219	INVALID SYSTEM SL FILE	The command referenced the system segmented library file, whose filecode or format is incorrect.	
220	INVALID PUBLIC SL FILE	The command referenced a public segmented library file whose filecode or format was incorrect.	
221	INVALID GROUP SL FILE	The command referenced a group segmented library file whose filecode or format was incorrect.	
222	INVALID LIST FILE	The command referenced an invalid list file.	
223	ILLEGAL PROGRAM DEALLOCATION	The command illegally attempted to deallocate a program.	
224	ILLEGAL PROGRAM ALLOCATION	The command illegally attempted to allocate a procedure.	
225	ILLEGAL PROCEDURE DEALLOCATION	The command illegally attempted to deallocate a procedure.	
226	ILLEGAL PROCEDURE ALLOCATION	The command illegally attempted to allocate a procedure.	
227	ILLEGAL CAPABILITY	The command referenced a file or program such that; permanent program file capability exceeds its group's; temporary file capability exceeds user's; or program requires privileged mode but program's capability does not include it.	
228	UNABLE TO OBTAIN CST ENTRIES	The command required code segment table (CST) entries that could not be obtained.	
229	UNABLE TO OBTAIN PROCESS DST ENTRY	The command required data segment table (DST) entries that could not be obtained.	
230	UNABLE TO OBTAIN VIRTUAL MEMORY	The command required virtual memory space that could not be obtained.	
231	TRACE SUBSYSTEM NOT PRESENT	The command requested loading of a program to be traced, but the TRACE subsystem is not in the system segmented library as required.	
232	PROGRAM LOADED IN OPPOSITE MODE	The command requested that a program be simultaneously loaded in NORMAL and NOPRIV mode.	
250	SEGMENTER ERROR	A Segmenter error was detected in attempting to prepare a program; detail may show additional information, as follows: 3 = Unable to create Segmenter process. 4 = Unable to access Segmenter process. 5 = Unable to send mail to Segmenter process. 6 = Unable to receive mail from Segmenter process. 7 = Segmenter process aborted.	
900	EOF ON \$STDIN		
901	I/O ERROR ON \$STDIN		
950	EOF ON \$STDLIST		
951	I/O ERROR ON \$STDLIST		

Table 2-2. Command Interpreter Warning Messages

MESSAGE	MEANING	ACTION
ACCOUNT OUT OF TIME	Attempt was made to log on after CPU or connect time for account has been exceeded.	Ask system manager to reset account time list.
CAPABILITY EXCEEDS ACCOUNT'S	The user's capability is greater than his account's capability.	The user is given the maximum capability allowed for his account for the job/session.
COMMAND IGNORED—NOT ALLOWED IN BREAK	This command cannot be executed during a break unless the job is aborted.	To execute command (and abort job) respond YES to ABORT?
DEFAULT VALUES TAKEN	Some default values were taken during loading the user's program (during execution of commands such as :RUN, :SPLGO, and :PREPRUN, for example).	Refer to discussion of the CREATE intrinsic (CCG condition code) in MPE Intrinsic Reference Manual for description of these conditions.
EXECUTION PRIORITY REQUESTED EXCEEDS CAPABILITY	The scheduling priority requested at log-on time (through the :PRI=priority parameter of the :HELLO or :JOB command, or its default value (CS)), is greater than the user's maximum priority as defined by the account manager user.	The user is given the highest priority allowed below BS that satisfies the user's maximum priority restriction.
GROUP OUT OF TIME	Attempt was made to log on after CPU or connect time for group has been exceeded.	Ask system manager to reset group time.
INVALID RESPONSE	The user gave an invalid response to a query from MPE requiring only a YES or NO response.	The user is given a second chance to respond YES or NO.
MAXPRI EXCEEDS ACCOUNT'S	The user's maximum priority value (as defined by the account manager) is greater than that of the account.	The user's job/session is given, as its maximum priority, the smaller of the two values.
MESSAGE TOO LONG	The message parameter for the :TELL or :TELOP command is too long to permit the destination message (including its prefix) to fit within a single 72-character line. (The total length is a function of the prefix, which in turn is a function of the fully-qualified job name of the sender.)	The message is not sent.
ONLY ALLOWED IN BREAK	:RESUME was entered when the program was not in break mode.	Command is ignored.
PREMATURE JOB TERMINATION	An error during a command in a batch job (without a preceding :CONTINUE command) caused the job to fail without further command interpretation.	

Table 2-2. Command Interpreter Warning Messages (Continued)

MESSAGE	MEANING	ACTION
PROCEDURE ALREADY ALLOCATED	Procedure specified in :ALLOCATE command is already allocated.	The read must be satisfied following entry of the :RE-SUME command. All characters entered for a partial record before the break are retained. Re-enter :SPEED command and type MPE correctly in response to message.
PROCEDURE NOT ALLOCATED	Procedure specified in :DEALLOCATE command is not allocated.	
PROGRAM ALREADY ALLOCATED	Program specified in :ALLOCATE command is already allocated.	
PROGRAM NOT ALLOCATED	Program specified in :DEALLOCATE command is not allocated.	
READ PENDING	A break request was initiated while a read was pending for the user's program.	
SPEED CHANGE NOT VERIFIED – OLD SPEED RETAINED	During execution of :SPEED command, characters other than MPE issued in response to CHANGE SPEED AND INPUT "MPE".	
USER NOT ACCEPTING MESSAGES	The job to receive a user's message, though defined, is not in EXECUTION state.	



SYSTEM MESSAGES

Miscellaneous conditions that terminate or otherwise affect sessions or jobs are reported through system messages, shown in table 2-3. These messages may appear, asynchronously, during the course of a running session or job on the standard list device.

Table 2-3. System Messages

Message	Meaning	Action
CAN NOT INITIATE NEW SESSIONS NOW	New sessions cannot be initiated due to one of the following problems: 1. Insufficient system resources to start job. 2. Session limit would be exceeded (see = LIMIT and = LOGOFF). 3. Requestor's input priority (INPRI =) is not greater than current jobfence (see = JOBFENCE).	System managers and system supervisors can bypass rejections due to 2 and 3 above, by supplying HIPRI on :HELLO command.
SESSION ABORTED BY SYSTEM MANAGEMENT JOB	The job/session has been aborted by the computer operator or system supervisor user through the appropriate command. An immediate log-off then takes place.	
SESSION HAS EXCEEDED TIME LIMIT JOB	The job/session has exceeded the time limit which was specified in the TIME= parameter of the JOB/HELLO command. An immediate log-off takes place.	
WARNING: PRIORITY = XXX	The priority passed to the CREATE intrinsic resulted in a conflict with another process, and the priority then assigned was XXX instead of the requested value.	
LMAP NOT AVAILABLE	An LMAP of the process being created, or program file being :RUN, is not available because the code segments are already loaded.	
POWER FAIL	Power failure has occurred and automatic restart is in progress. It is possible that a character has been lost due to a transmission error when the power failure occurred.	

INTRINSIC ERROR MESSAGES

During program execution, an intrinsic call can result in program termination. Run-time errors can be caused by:

- Special violations — those detected through the internal interrupt structure (such as arithmetic trap errors, parity errors, bounds violations, etc.) and other violations detected by MPE (such as stack overflows or invalid stack markers). These are PROGRAM ERRORS and are described in table 2-4.
- Explicit calls to the QUIT intrinsic.
- Explicit calls to the QUITROG intrinsic.
- Violations of other callable intrinsics, such as passing of illegal parameters or the invoking of an intrinsic without having the required capability class or a valid register environment. (These are listed as Run-Time errors in table 2-6. Error codes issued by the File System intrinsics are listed in table 2-7. These codes are the same as the codes returned by including the *errorcode* parameter in a call to FCHECK. Errors encountered by the loader are listed in table 2-8. The intrinsics themselves are listed in the Intrinsic table (2-5) and errors encountered by them are listed by specific intrinsic: CREATE, ACTIVATE, SUSPEND, MYCOMMAND and LOCKGLOBIN (tables 2-9 through 2-13).

If an appropriate error trap has been armed, control transfers to the trap procedure which may attempt re-terminates the user's process and transmits a run-time (abort) message to the user's output device. In a multiprocess structure, QUIT aborts only the violating process but all other errors abort the entire program.

If the aborted program was running in a batch job, the job is removed from the system (if no :CONTINUE command overrides termination).

If it was running in a session, control of the session is returned to you at the terminal.

NOTE

An abort-error will occur if a user process invokes certain callable intrinsics when the DB register is not pointing to its normal position (e.g. DB is pointing at an extra data segment). If this happens and a user trap procedure is invoked, the DB register is reset to the normal position before the trap procedure is entered.

The format for run-time errors is:

ABORT:pname.segment.location:sname.segment.location

p-field

s-field

< msgtype > # < msgno > : < message > [.PARAM {⁼_#} < number >]

m-field (from 1 to 7 lines)

where:

p-field is the last location of the last instruction executed in the user program prior to the abort.

s-field is output only if the abort occurred when executing code belonging to a library segment referenced by the user program. The field provides the instruction location within the library segment that initiated the abort.

Within the p-field and s-field, the parameters are:

pname The name of the program file containing the user's program and optionally, the group and account name.

In the special case of a process having been PROCREATED from a segment in a segmented library (SL) (for example, the Command Interpreter), an asterisk (*) is output followed by the SL name in symbolic form (sname, below).

sname The symbolic name of the SL in which the segment exists

SYSL — System SL

PUSL — Public SL

GRSL — Group SL

segment The logical number of the code segment relating to either the program or SL, whichever is appropriate.

location The location in the code segment. This is expressed in terms of the displacement (P-PB), where P is the absolute address of the instruction and PB the absolute address of the base of the code segment.

NOTE

Octal numbers are indicated by a percent sign (%) preceding the number.

If the stack is completely destroyed and no valid stack markers can be found that define a user environment, then the above-defined subfields will be output containing a question mark (?).

m-field contains the error message text.

The parameters within the m-field are

<msgtype> is one of:

PROGRAM ERROR	Table 2-4
ERROR: INTRINSIC	Table 2-5
RUN-TIME ERROR	Table 2-6
FILESYSTEM ERROR	Table 2-7
LOADER ERROR	Table 2-8
CREATE ERROR	Table 2-9
ACTIVATE ERROR	Table 2-10
SUSPEND ERROR	Table 2-11
MYCOMMAND ERROR	Table 2-12
LOCKGLORIN ERROR	Table 2-13

<msgno>	is a message number, which is an index into the <msgtype> table.
<message>	is the text of the message which can be found along with the message number in the message type table.
<number>	is the number of the invalid parameter passed to an intrinsic (the message will read: PARAM # <number>) or is the parameter passed to the QUIT or QUITPROG intrinsic (the message will read: PARAM =).

Some examples of run-time messages are:

Examples:

```
ABORT :BIN.ED.MPE.%0.%12
ERROR: INTRINSIC #62: BINARY
RUN-TIME ERROR #5: PARAMETER ADDRESS VIOLATION. PARAM #1
```

BINARY was called with an invalid byte address.

```
ABORT :OV.ED.MPE.%0.%177777
PROGRAM ERROR #20: STACK OVERFLOW
```

The program was in an infinite loop doing a DUP instruction.

```
ABORT :PRIV.ED.MPE.%0.%3
PROGRAM ERROR #6: PRIVILEGED INSTRUCTION
```

A return was made from a non-privileged segment to a privileged segment.

```
ABORT :QUIT.ED.MPE.%0.%1
PROGRAM ERROR #18; PROCESS QUIT.PARAM = 15
```

The program called QUIT Intrinsic with a parameter of 15.

```
ABORT :UF.ED.MPE.%0.%1
PROGRAM ERROR #29: STACK UNDERFLOW
```

The program was in an infinite loop doing a DEL instruction.

```
ABORT :EDITOR.PUB.SYS.%2.%7
ERROR: INTRINSIC #100: CREATE
CREATE ERROR #30: LOAD ERROR
LOADER ERROR #65: UNABLE TO OBTAIN CST ENTRIES
```

Nearly all CST entries were ALLOCATED and the program tried to create a process which required more CST's than were available.

ABORT :EDITOR.PUB.SYS.%2.%13

ERROR: INTRINSIC #104: ACTIVATE

ACTIVATE ERROR #21: ACTIVATION OF MAIN PROCESS NOT ALLOWED

The program tried to activate a non-existent process.

The following is a list of < msgtype > tables, the message number and text for each message found for each type of message:

Table 2-4. Program Error Messages

MSGNO	MESSAGE	MEANING
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	INTEGER OVERFLOW FLOATING POINT OVERFLOW FLOATING POINT UNDERFLOW INTEGER DIVIDE BY ZERO FLOATING POINT DIVIDE BY ZERO PRIVILEGED INSTRUCTION ILLEGAL INSTRUCTION EXTENDED PRECISION OVERFLOW EXTENDED PRECISION UNDERFLOW EXTENDED PRECISION DIVIDE BY ZERO DECIMAL OVERFLOW INVALID ASCII DIGIT INVALID DECIMAL DIGIT INVALID WORD COUNT INVALID DECIMAL OPERAND LENGTH DECIMAL DIVIDE BY ZERO STT UNCALLABLE	Logic error in the program.
18 19	PROCESS QUIT.PARAM= <number> PROGRAM QUIT.PARAM= <number>	<number> is the value passed to the QUITPROG or QUIT intrinsic by the terminating process. (This value is output only if it is <i>not</i> zero.)
20	STACK OVERFLOW	Logic error in the program. Probably looping and adding to stack. May require larger MAXDATA when preparing program.
21	PROGRAM KILLED	Program aborted from an external source.
22 23 24 25 26 27 28	INVALID STACK MARKER ADDRESS VIOLATION BOUNDS VIOLATION NON-RESPONDING MODULE DATA PARITY MEMORY PARITY SYSTEM PARITY	Possible hardware problem.
29	STACK UNDERFLOW	Logic error in program. Probably looping and popping stack.
30 31	CST VIOLATION STT VIOLATION	Invalid CST or STT discovered by hardware. Explicit PCAL from TOS may have referenced non-existent CST or STT. May be bad program file.

Table 2-5. Intrinsic Table

MSGNO (INTRINSIC NO.)	MESSAGE (NAME)	MSGNO (INTRINSIC NO.)	MESSAGE (NAME)
1	FOPEN	15	FLOCK
2	FREAD	16	FUNLOCK
3	FWRITE	17	FRENAME
4	FUPDATE	18	FRELATE
5	FSPACE	19	FREADLABEL
6	FPOINT	20	FWRITELABEL
7	FREADDIR	21	PRINTFILEINFO
8	FCLOSE	22	IOWAIT
10	FCHECK	30	GETLOCRIN
11	FGETINFO	31	FREELOCRIN
12	FREADSEEK	32	LOCKLOCRIN
13	FCONTROL	33	UNLOCKLOCRIN
14	FSETMODE	34	LOCKGLORIN
		35	UNLOCKGLORIN
42	PROCTIME	40	TIMER
45	PAUSE	81	UNLOADPROC
50	XARITRAP	82	INITUSLF
51	ARITRAP	83	ADJUSTSLF
52	XLIBTRAP	84	EXPANDUSLF
53	XSYSRAP	99	DEBUG
54	XCONTRAP	100	CREATE
55	RESETCONTROL	102	KILL
56	CAUSEBREAK	103	SUSPEND
60	TERMINATE	104	ACTIVATE
61	CTranslate	105	GETORIGIN
62	BINARY	106	MAIL
63	ASCII	107	SENDMAIL
64	READ,READX	108	RECEIVEMAIL
65	PRINT	109	FATHER
66	PRINTOP	110	GETPROCINFO
67	PRINTOREPLY	112	GETPROCID
68	COMMAND	120	GETPRIORITY
69	WHO	130	GETDSEG
70	SEARCH	131	FREEDSEG
71	MYCOMMAND	132	DMOVIN
72	SETJCW	133	DMOVEOUT
73	GETJCW	134	ALTDSEG
74	DBINARY	135	DLSIZE
75	DASCII	136	ZSIZE
76	QUIT	139	SWITCHDB
77	STACKDUMP	191	PTAPE
78	SETDUMP	200	GETPRIVMODE
79	RESETDUMP	201	GETUSERMODE
80	LOADPROC		

Table 2-6. Run-Time Error Messages

MESSAGE	MSGNO	MEANING
ILLEGAL DB REGISTER	1	Run-time errors are discovered by MPE performing parameter checking before attempting certain operations. These errors are caused by a logic error in the program.
ILLEGAL CAPABILITY	2	
OMITTED PARAMETER	3	
INCORRECT S REGISTER	4	
PARAMETER ADDRESS VIOLATION	5	
PARAMETER END ADDRESS VIOLATION	6	
ILLEGAL PARAMETER	7	
PARAMETER VALUE INVALID	8	
INCORRECT Q REGISTER	9	

Table 2-7. File System (FCHECK) Error Codes

MSGNO	MEANING
0	End of file.
1	Illegal DB register setting; typically, a request in split-stack mode when it is illegal.
2	Illegal capability.
8	Illegal parameter value.
20	Invalid operation.
21	Data parity error.
22	Software time-out.
23	End of tape.
24	Unit not ready.
25	No write ring on tape.
26	Transmission error.
27	Input/output time-out.
28	Timing error or data overrun.
29	Start input/output (SIO) failure.
30	Unit failure.
31	End of line indicated by special character terminator.
32	Software abort of input/output operation.
33	Data lost.
34	Unit not on-line.
35	Data set not ready.
36	Invalid disc address.
37	Invalid memory address.
38	Tape parity error.
39	Recovered tape error.
40	Operation inconsistent with access type.
41	Operation inconsistent with record type.
42	Operation inconsistent with device type.

Table 2-7. File System (FCHECK) Error Codes (Continued)

MSGNO	MEANING
43	Transfer count (tcount) exceeds record size parameter (recsize) when multi-record write (aoption) not specified when file opened.
44	FUPDATE intrinsic requested but file is positioned at record zero; FUPDATE must reference last record read but no previous record was read.
45	Privileged file violation.
46	Insufficient disc file space on all discs in specified device class.
47	Input/output error while accessing file label.
48	Invalid operation due to multiple file access.
49	Unimplemented function.
50	Referenced account does not exist.
51	Referenced group does not exist.
52	Referenced permanent file not found in system directory.
53	Referenced temporary file not found in job directory.
54	Invalid file reference.
55	Referenced device is not available.
56	Device specification is invalid or undefined.
57	Virtual memory insufficient for specified file.
58	File not passed; typically caused by request for \$OLDPASS when there is no \$OLDPASS.
59	Standard label violation.
60	Global RIN not available.
61	Group disc file space exceeded.
62	Account disc file space exceeded.
63	User does not have non-sharable device (ND) capability required by this operation.
64	User does not have multiple RIN (MR) capability required by this operation.
66	Plotter limit switch reached.
67	Paper tape error.
68	System internal error.
69	Miscellaneous (ATTACHIO) input/output error.
71	Process file access information exhausted. Try using the :RUN or :PREPRUN NOCB parameter.
72	Invalid file number.
73	Bounds check violation.
77	NOWAIT input/output operation is pending.
78	There is no NO/WAIT input/output for any file.
79	There is no NO/WAIT input/output for specified file.
80	Configured maximum number of spoolfile sectors exceeded by this output request.
81	SPOOL class not defined in system.
82	Insufficient space in SPOOL class for this input/output request.
83	Extent size greater than 65K (maximum allowed).

Table 2-7. File System (FCHECK) Error Codes (Continued)

MSGNO	MEANING
84	Device in SPOOL class is down; that is, next extent in this spool file is on device that is not available to system.
85	Requested operation inconsistent with spooling; for example, an attempt to read hardware status.
86	Spool process internal error.
87	Offset to data is greater than 255 sectors.
89	Power failure.
90	Calling process requested exclusive access to file being accessed by another process.
91	Calling process requested access to file to which another process has exclusive access.
92	Lockword violation.
93	Security violation.
94	Conflict in use of FRENAME intrinsic because user is not the creator.
95	"BROKEN" terminal read.
96	Miscellaneous disc input/output error (device may require service by HP customer engineer).
97	Control-Y processing requested but no CONTROL-Y PIN exists.
98	Input/output read time overflow.
99	Magnetic tape error; beginning of tape (BOT) found while requesting a backspace record (BSR) or backspace file (BSF).
100	Duplicate permanent file name in system file directory.
101	Duplicate temporary file name in job file directory.
102	Directory input/output error.
103	System directory overflow.
104	Job directory overflow.
105	Illegal variable block structure.
106	Extent size exceeds 65K (maximum allowed).
107	Offset to data exceeds 255 sectors.
108	Inaccessible file due to a bad file label.
109	Illegal carriage control option.
110	Attempt to save permanent system file in job (temporary) directory.
111	User does not have "SAVE FILE" capability.
170	RESERVED FOR FUTURE USE.
171	DUPLICATE KEY VALUE WHEN DUPLICATES NOT ALLOWED.
172	KEY NOT FOUND; NO SUCH KEY VALUE.
173	<i>tcount</i> PARAMETER LARGER THAN RECORD SIZE.
174	CANNOT GET EXTRA DATA SEGMENT FOR THIS FILE.
175	KSAM INTERNAL ERROR.
176	ILLEGAL EXTRA DATA SEGMENT LENGTH.
177	TOO MANY EXTRA DATA SEGMENTS FOR THIS PROCESS.
178	NOT ENOUGH STORAGE FOR EXTRA DATA SEGMENT.
179	RESERVED.
180	RESERVED.

Table 2-8. Loader Error Messages

MSGNO	MESSAGE	MEANING
20	ILLEGAL LIBRARY SEARCH	MAXDATA must be no greater than 31,232
21	UNKNOWN ENTRY POINT	
22	TRACE SUBSYSTEM NOT PRESENT	
23	STACK SIZE TOO SMALL	
24	MAXDATA TOO LARGE	
25	DATA SEGMENT TOO LARGE	A privileged program is currently loaded in the opposite PRIV/ NON-PRIV mode.
26	PROGRAM LOADED IN OPPOSITE MODE	
27	SL BINDING ERROR	System may be reconfigured by system supervisor/manager for larger code segment.
28	INVALID SYSTEM SL FILE	
29	INVALID PUBLIC SL FILE	
30	INVALID GROUP SL FILE	
31	INVALID PROGRAM FILE	
32	INVALID LIST FILE	
33	CODE SEGMENT TOO LARGE	
34	PROGRAM USES MORE THAN ONE EXTENT	Programs must be located in contiguous disc space. Build new program file with larger extent size.
35	DATA SEGMENT TOO LARGE	Data segment greater than 32,767 words, the hardware limitation.
36	DATA SEGMENT TOO LARGE	System may be reconfigured by system supervisor/manager for larger data segment.
37	TOO MANY CODE SEGMENTS	A program file can contain a maximum of 152 segments.
38	TOO MANY CODE SEGMENTS	System may be reconfigured by system supervisor/manager for more code segments.
39	ILLEGAL CAPABILITY	
40	TOO MANY PROCEDURES LOADED	
41	UNKNOWN PROCEDURE NAME	
42	INVALID PROCEDURE NUMBER	
43	ILLEGAL PROCEDURE UNLOAD	
50	UNABLE TO OPEN SYSTEM SL FILE	
51	UNABLE TO OPEN PUBLIC SL FILE	
52	UNABLE TO OPEN GROUP SL FILE	
53	UNABLE TO OPEN PROGRAM FILE	
54	UNABLE TO OPEN LIST FILE	
55	UNABLE TO CLOSE SYSTEM SL FILE	
56	UNABLE TO CLOSE PUBLIC SL FILE	
57	UNABLE TO CLOSE GROUP SL FILE	
58	UNABLE TO CLOSE PROGRAM FILE	
59	UNABLE TO CLOSE LIST FILE	
60	EOF OR I/O ERROR ON SYSTEM SL FILE	
61	EOF OR I/O ERROR ON PUBLIC SL FILE	

Table 2-8. Loader Error Messages (Continued)

MSGNO	MESSAGE	MEANING
62	EOF OR I/O ERROR ON GROUP SL FILE	System is loaded to capacity. Either a running program must terminate, or an ALLOCATED program or procedure not in use must be DEALLOCATED.
63	EOF OR I/O ERROR ON PROGRAM FILE	
64	EOF OR I/O ERROR ON LIST FILE	
65	UNABLE TO OBTAIN CST ENTRIES	
66	UNABLE TO OBTAIN PROCESS DST ENTRY	System is loaded and there are insufficient resources to create the load process.
67	UNABLE TO OBTAIN MAIL DATA SEGMENT	
68	UNABLE TO CREATE LOAD PROCESS	
70	SEGMENT TABLE OVERFLOW	
71	UNABLE TO OBTAIN SUFFICIENT DL STORAGE	
72	ATTIO ERROR	
73	UNABLE TO OBTAIN VIRTUAL MEMORY	
74	DIRECTORY I/O ERROR	
75	PRINT I/O ERROR	
76	ILLEGAL DLSIZE	
80	PROGRAM ALREADY ALLOCATED	
81	ILLEGAL PROGRAM ALLOCATION	
82	PROGRAM NOT ALLOCATED	
83	ILLEGAL PROGRAM DEALLOCATION	
84	PROCEDURE ALREADY ALLOCATED	
85	ILLEGAL PROCEDURE ALLOCATION	
85	PROCEDURE NOT ALLOCATED	
87	ILLEGAL PROCEDURE DEALLOCATION	

Table 2-9. CREATE Intrinsic Error Messages

MSGNO	MESSAGE	MEANING
20	UNKNOWN SUBQUEUE NAME	Error occurred in loader. System is loaded and there are insufficient PCB's to load process.
21	SUBQUEUE 'A' REQUESTED WITHOUT FROZEN STACK	
23	INSUFFICIENT CAPABILITY FOR NON-STANDARD SUBQUEUE	
24	UNKNOWN PORTION OF MASTER QUEUE	
25	INSUFFICIENT CAPABILITY FOR MASTER QUEUE	
26	ABSOLUTE PRIORITY REQUESTED WITHOUT CAPABILITY	
27	ILLEGAL PRIORITY CLASS SPECIFIED	
28	PRIORITY OMITTED WHILE FATHER PROCESS IN MASTER QUEUE	
29	PRIORITY RANK RESERVED TO SUPERVISOR CAPABILITY	
30	LOAD ERROR	
31	LACK OF SYSTEM RESOURCE	
32	MAXIMUM ACCOUNT PRIORITY EXCEEDED	

Table 2-10. ACTIVATE Intrinsic Error Messages

MSGNO	MESSAGE	MEANING
20 21	ACTIVATION OF SYSTEM PROCESS NOT ALLOWED ACTIVATION OF MAIN PROCESS NOT ALLOWED	Process may not exist.

Table 2-11. SUSPEND Intrinsic Error Messages

MSGNO	ERROR
20	INSUFFICIENT CAPABILITY

Table 2-12. MYCOMMAND Intrinsic Error Messages

MSGNO	ERROR
20	PARSED PARAM OF COMIMAGE >255 CHARACTERS

Table 2-13. LOCKGLORIN Error Messages

MSGNO	ERROR
20 21 22 23 24	INCORRECT PASSWORD FOR RIN ONLY ONE RIN CAN BE LOCKED RIN IS NOT ALLOCATED RIN IS TOO LARGE FOR THE RIN TABLE RIN IS NOT GLOBAL RIN

STORE AND RESTORE MESSAGES

The messages issued as a result of errors that occur during execution of the :STORE and :RESTORE commands are listed in tables 2-14 and 2-15.

Table 2-14. :STORE Command Error Messages

MESSAGE	MEANING
ACCOUNT NOT IN DIRECTORY	Specified account does not exist.
GROUP NOT IN DIRECTORY	Specified group does not exist.
FILE NOT IN DIRECTORY	Specified file does not exist.
BUSY	File is open for output, or is currently being stored or restored.
FILE CODE < 0 AND NO PRIVMODE	Attempt to store a file with a negative file code, but user does not have Privileged Mode capability.
LOCKWORD WRONG	The file lockword either was not provided or was specified incorrectly.
READ ACCESS FAILURE	You do not have read access to the specified file.
FILE LABEL ERROR	Due to a problem beyond your control, the file label is not valid.

Table 2-15. :RESTORE Command Error Messages

MESSAGE	MEANING
ACCOUNT DIFFERENT FROM LOGON	The file's account name is different from the name of your log-on account. (Users do not have save-access to groups outside of their log-on accounts.)
ACCOUNT DISC SPACE EXCEEDED	The account's disc space limit would be exceeded by restoring this file.
ACCOUNT NOT IN DIRECTORY	The account specified does not exist in the system.
ALREADY EXISTS	A copy of the file specified already exists on disc, and KEEP was also specified. The file was not replaced.
BUSY	The disc file is open, loaded, or being stored or restored at present.
CATASTROPHIC ERROR	A catastrophic error occurred while the system was restoring either this file or one previous to it on the tape, and the :RESTORE command was aborted. (Examples of such catastrophic errors are listed below.)
CREATOR NOT IN DIRECTORY	The creator of the file is not defined in the system.
DISC FILE CODE < 0 AND NO PRIV MODE	One of the files (on disc) to be replaced has a negative file code, and you do not have Privileged Mode Capability.
DISC FILE LOCKWORD WRONG	The disc file has a lockword that does not match the lockword for the file on tape.
GROUP DISC SPACE EXCEEDED	The group's disc space limit would be exceeded by restoring this file.
GROUP NOT IN DIRECTORY	The group specified does not exist in the system.

Table 2-15. :RESTORE Command Error Messages (Continued)

MESSAGE	MEANING
NOT ON TAPE	The file specified is not on the tape.
OUT OF DISC SPACE	There is insufficient disc space to restore this file.
SAVE ACCESS FAILURE	User does not have save-access to the group to which the file belongs.
TAPE FILE CODE < 0 AND NO PRIV MODE	One of the files (on tape) to be restored has a negative file code, and user does not have Privileged Mode capability.
TAPE FILE LOCKWORD WRONG	The tape file has a lockword that user did not supply or did not specify correctly.
TAPE READ ERROR	Tape read error occurred on a block other than the block containing the file label.
WRITE ACCESS FAILURE	User does not have write-access to the copy of the file on disc.

The following catastrophic errors abort the :RESTORE command:

Command syntax error.

Disc input/output error (in system).

File directory error.

File system error on the tape file (TAPE), list file (LIST), or any of the three temporary files (GOOD, ERROR, and CANDIDAT) used by the :RESTORE command executor.

Improper tape; the tape used for input was not written in :STORE:RESTORE format.

No continuation reel; the computer operator could not find a continuation reel for a multi-reel tape set.

Device reference error; the specification for the *device* parameter is illegal, or the device requested is not available.

LANGUAGE ERROR MESSAGES

SECTION

III

The messages and codes in this section result from errors in languages supported by MPE. Messages for the following languages are described:

SPL/3000	Tables 3-1, 3-2
FORTTRAN/3000	Table 3-3
COBOL/3000	Tables 3-4, 3-5
RPG/3000	Tables 3-6 through 3-18
BASIC/3000	Tables 3-19 through 3-26
APL/3000	Tables 3-27 through 3-32

There is both a compiler and an interpreter for BASIC/3000, each generating a separate set of error messages and codes. The BASIC/3000 compiler messages are described first followed by the BASIC/3000 interpreter messages.

SPL COMPILE MESSAGES

During compilation of SPL/3000 source programs, the compiler prints a message whenever it discovers a condition that will cause an execution error or that might cause such an error. The message is printed directly below the line in which the condition was found with a pointer to the end of the parameter or statement that caused the condition.

Error messages have the following form:

```
{ ***** WARNING *****  
  ***** ERROR *****  
  ***** CATASTROPHIC ERROR ***** } message
```

WARNING MESSAGES

If a message is preceded by the word WARNING, the error condition usually does not prevent program execution. Compilation of the erroneous statement is completed, a USL file is produced by the compiler, and a program file by the segmenter. However, the warning does indicate the possibility of an execution error that may terminate the program or, if the program runs, may cause results to be incorrect. The segmenter is not aware of the conditions that cause a warning to be issued.

ERROR MESSAGES

A message preceded by the word ERROR indicates that the statement contains a definite error condition. Compilation of the erroneous statement is suspended; compilation continues with the next statement or when one of the following tokens is encountered within the erroneous statement: THEN, UNTIL, DO, BEGIN, END, ELSE, ; (semicolon). The error does not prevent a USL file or a program file from being produced, but it is not likely that the program will execute correctly. Unlike WARNING messages, the conditions that cause an ERROR message are known to the segmenter.

CATASTROPHIC ERROR MESSAGES

When an error condition causes a message to be preceded by CATASTROPHIC ERROR, the program cannot be executed until the error is corrected. The segmenter is unable to prepare the USL file for any source program containing such an error.

Figure 3-1 illustrates a compiler listing containing a WARNING message and an ERROR message.

Whether a message indicates a warning, an error, or a catastrophic error depends on the context. The messages themselves do not differ for each of these conditions. Thus, one message could be a warning in one circumstance and indicate a real error in another. In general, all messages relating to file errors indicate a catastrophic error condition.

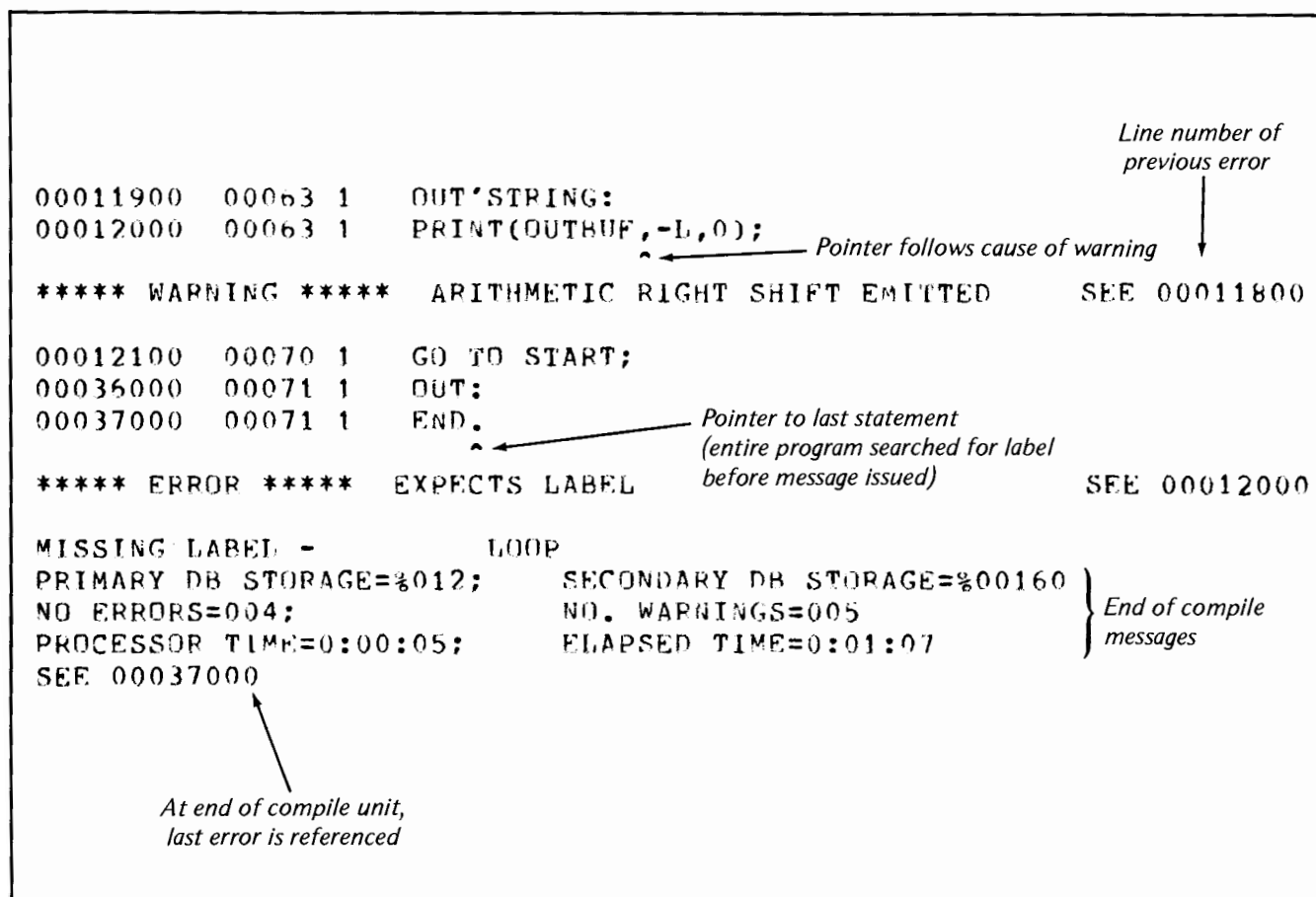


Figure 3-1. Sample SPL Error Messages

All SPL compiler messages are listed in alphabetic order in table 3-1. In every case, the condition causing the message is described and a suggestion is made for correcting the condition.

BUILDINT MESSAGES

BUILDINT is a program used to build a file containing a symbol table of intrinsic names that can be called from an SPL program. It can also be used to change an existing intrinsic file. Intrinsic files are on disc; the program \$STDIN is used for input, \$STDLIST for list output; the intrinsic data file is opened as SPLINTR. The messages that may result from errors in running program BUILDINT are listed alphabetically in table 3-2.

Table 3-1. SPL Compiler Error Messages

MESSAGE	MEANING	ACTION
ARITHMETIC RIGHT SHIFT EMITTED	Compiler has issued an ASR to convert a byte address to a word address.	None, unless word address is supposed to be greater than DB+16383 in which case the ASR causes an error.
BEGIN END DO NOT MATCH	When END. encountered, there were more BEGINS than ENDs.	Check your code and correct.
CASE STATEMENT OVERFLOW	The number of cases in a CASE statement exceeds 256.	Check your code; decrease the number of cases.
CONVERSION ERROR	An illegal type conversion was attempted.	Check manual for legal type con- versions; note that types cannot be mixed in arithmetic operations.
DECLARATION NOT ALLOWED IN SUBROUTINE	A subroutine may not have declarations (e.g., local variables).	Check the subroutine code and move declarations to main pro- gram or procedure.
DECLARATION OUT OF ORDER	Declarations must be ordered as: data, procedures, subroutines.	Check the order; correct.
DECLARED TWICE	An identifier has declared twice at the same level.	Check declarations; correct. An identifier may be misspelled.
DEFINE TOO LARGE	A DEFINE declaration has too many characters in its description.	Check declaration, reduce to 511 characters excluding blanks that are not required.
DISPLACEMENT OUT OF RANGE	The displacement is too large or has the wrong sign for the ad- dressing mode.	Displacement varies with address- ing mode: DB + 255 Q + 127; Q - 63 S - 63 P + 255; P - 255
DISPLACEMENT TOO LARGE	The displacement is too large for the addressing mode.	
ERROR IN CATENATE EXPRESSION	A catenate expression must be of the form (L:M:N) where L, M, and N are integer constants.	Check expression and correct.
ERROR IN PARTIAL WORD DESIGNATOR	A partial word designator must be of the form (M:N) where M and N are integer constants.	Check code; correct form of partial word designator.
ERROR IN SHIFT DESIGNATOR	An illegal mnemonic follows the &.	Change mnemonic to a valid shift identifier.
ERROR IN USL FILE	USL file contains a bad entry, Compilation terminates.	Check source for errors; correct and try again. (Try reinitializing USL with USLINIT.)
ERROR OVERFLOW	Maximum number of errors has been generated.	Default maximum = 100 errors; change with \$CONTROL = <i>nnn</i> (<i>nnn</i> = maximum errors)

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
EXPECTS ALPHA	The next symbol must be an alphabetic character.	Check code; change to alphabetic character.
EXPECTS ARRAY IDENTIFIER	Only an array identifier is legal in this context.	Check code; use array identifier.
EXPECTS ASTERISK	An asterisk is expected in this context.	Check code; use asterisk.
EXPECTS BOUNDS	An array declaration of this type requires bounds.	Check code; enter bounds.
EXPECTS CONSTANT	A constant is expected in this context; for example, as a partial word designator.	Check code; correct.
EXPECTS DOLLAR	A \$ command with continuation symbol is not followed by image with \$ in column 1.	Correct by entering \$ at beginning of continuation line or deleting continuation symbol.
EXPECTS EQUAL	An equals sign is expected in this context.	Check code and enter = where expected.
EXPECTS INTEGER VARIABLE	Only an integer variable is legal in this context.	Check code, correct.
EXPECTS LABEL	A label must appear in this context.	Check code, correct.
EXPECTS OPTION	A \$ command has an illegal command or is followed by an illegal parameter.	Check command, correct.
EXPECTS POINTER	Only a pointer is legal in this context.	Check code, correct.
EXPECTS REFERENCE PARAMETER	A value parameter is passed to a procedure that expects a parameter passed by reference.	Check parameters and specifications; assign expressions to variables and use variables as the parameters; correct.
EXPECTS RELATIONAL	A relational operator is expected at this point.	Check code, correct by including relational operator (=, <>, <, <=, >, >=).
EXPECTS RELATIONAL OR COMMA	Either a comma or a relational operator is expected in this context.	Check code, correct by including comma or relational operator (=, <>, <, <=, >, >=) as appropriate.
EXPECTS SYMBOL	No symbol where a symbol, such as an identifier, is expected.	Check code, include symbol.
EXPECTS UNDEFINED BOUNDS	An array declaration of this type requires an asterisk (*).	Check declaration, include *.
EXPECTS VARIABLE	Only a variable is allowed in this context.	Check code, correct.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
EXPECTS WHILE OR UNTIL	The reserved word WHILE or UNTIL is missing.	Check code, include WHILE or UNTIL. (Especially for BEGIN-END mismatch.)
EXPECTS @	The compiler expects an @ as the next symbol in this context.	Check code, include @.
FORWARD PROCEDURE DECLARATION INCOMPATIBLE	Forward and actual procedure declarations do not match.	Check declarations and correct.
ILLEGAL ADDRESS MODE	The specified address mode is not legal in this context.	Address mode relative to DB, Q, S, or PB must be changed.
ILLEGAL ADDRESS STORED	An attempt has been made to store into a non-existent address; for example: @PTR(1):=0.	Check statement and correct.
ILLEGAL ASSEMBLE STATEMENT	An error detected in an ASSEMBLE statement.	Check the statement; correct.
ILLEGAL ATTRIBUTE	Attribute inconsistent with identifier; e.g., LONG LABEL.	Check the specification; correct.
ILLEGAL BOUNDS SPECIFICATIONS	The bounds for this array declaration are invalid.	Check that bounds are * or integer constant.
ILLEGAL CLASS	Symbol class (POINTER, ARRAY, etc.) incorrect in context.	Check the symbol; correct the symbol class.
ILLEGAL CONSTANT	This symbol is not a valid constant.	Check the constant, enter a valid constant.
ILLEGAL DYNAMIC BOUNDS	The dynamic bounds must be either an integer formal parameter or a global integer.	Correct as indicated.
ILLEGAL EXTERNAL VARIABLE	An error occurred in an external variable declaration or in its use.	Check the declaration and also the procedure where it is used; correct.
ILLEGAL FORMAL PARAMETER	The attributes specified for this formal parameter are not valid.	Check the parameter; correct.
ILLEGAL GLOBAL EXTERNAL VARIABLE	An error has occurred in a global or an external variable declaration.	Check declarations; correct.
ILLEGAL IDENTIFIER REFERENCE	The reference identifier for this declaration is incorrect.	Check the declaration; reference identifier must be declared first.
ILLEGAL INITIALIZATION	The initialization list for this array is invalid.	Make sure that list contains only numeric values or strings.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
ILLEGAL IF STATEMENT	This IF statement contains an error.	Check the statement, correct.
ILLEGAL ITEM IN EXPRESSION	The item is either not declared or is of the wrong class.	Check declarations, include if necessary, otherwise correct.
ILLEGAL LEFT PARENTHESIS	A left parenthesis has been used in a context where it is illegal.	Remove the parenthesis.
ILLEGAL MODE IN THIS CONTEXT	An address mode (relative to DB, Q, S, or PB) cannot be used in this context.	Change to a mode that is legal in this context.
ILLEGAL OPERATOR	An operator is used that is not recognized by the compiler.	Valid operators are: *, /, **, //, +, -, MOD, MODD, =, <, <>, <=, >, >=, LAND, LOR, XOR.
ILLEGAL OWN INITIALIZATION	The initialization list for an OWN array is invalid.	Check; correct the list to include only numbers and strings.
ILLEGAL OWN VARIABLE	An error occurred in an OWN variable declaration or in its use. Allowed only in procedures.	Check the OWN variable declaration and also where it is used; correct.
ILLEGAL PARAMETER	This parameter is an illegal item.	Check the parameter; correct.
ILLEGAL S-RELATIVE ADDRESS	The displacement to S is either positive or less than 63.	Correct the address to fall within range S-0 through S-63.
ILLEGAL SEGMENTATION	A \$CONTROL SEGMENT card is within a procedure.	Change the card to appear outside the procedure.
ILLEGAL STATEMENT BEGINNER	A statement cannot begin with this class; possibly is an undeclared variable.	Check the class, and if undeclared variable, declare it.
ILLEGAL STATEMENT TERMINATOR	A statement must be terminated by END or a semicolon.	Correct the terminator.
ILLEGAL STRING	A string is expected in this context but there are no quote marks.	Enclose the string in quotes.
ILLEGAL SYMBOL	Not an ASCII character valid for SPL.	Check and enter a valid ASCII character acceptable to SPL.
ILLEGAL TO STACK PARAMETER	Parameter must not be loaded directly to stack in this context or stack will be out of order.	Correct so that parameter is not stacked.
ILLEGAL TRACE CARD	A \$TRACE card is either in the wrong position or contains an error.	Check the \$TRACE card and move or correct as appropriate.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
ILLEGAL TRACE IDENTIFIER	The identifier being traced is of a class that cannot be traced.	Change class to SIMPLE VARIABLE , ARRAY , POINTER , LABEL , or PROCEDURE .
ILLEGAL TYPE	A type mismatch has occurred in an arithmetic operation.	Check the types and change to matching types.
ILLEGAL TYPE TRANSFER	The type of the operand may not be converted to the type of the object in SPL.	Check the statement and correct to avoid type mismatch.
ILLEGAL USE OF PB BYTE ARRAY	Byte cannot be loaded from a PB byte array since the load byte instruction is not PB-relative.	Correct code so attempt is not made to load byte from PB byte array.
ILLEGAL VARIABLE	Form of variable is not valid.	Check variable and insure that it starts with letter.
ILLEGAL X ON OR OFF	Parameter on \$IF command is invalid; may be X0 through X9 = ON or OFF only.	Check \$IF parameter and correct.
ILLEGAL X REGISTER REFERENCE	Either the type or the class of the variable referencing the X register is illegal.	Change type and/or class to that of a one-word variable.
INDEX NOT ALLOWED	An attempt was made to index a simple variable.	Change declaration to array or remove index.
INITIALIZATION OUT OF RANGE	An array has been initialized with a list that is larger than the array size.	Either change the array size or decrease the list.
INTEGER OVERFLOW	A constant expression resulted in an integer overflow.	Check constants used in expressions for a resulting value greater than 32767_{10} or less than -32768_{10} .
INVALID BRANCH EMITTED	Compiler has emitted a bad branch in ASSEMBLE statement; probably label out of range.	Check label range; change to indirect branch.
INVALID BYTE INITIALIZATION	The initialization list of a byte array is incorrect.	Check byte array and its initialization list; correct.
INVALID COMMENT	Comment has been used in an illegal context.	Check code; either move or remove comment.
INVALID EXPONENT PARAMETER	An exponent expression contains an error.	Check the expression; correct.
INVALID NUMBER	Either the field is not numeric or the number is out of range in this context.	Check field and range of number; correct.
INVALID OPERATOR MNEMONIC	The mnemonic in ASSEMBLE statement not identifiable.	Check code for invalid instruction mnemonic; correct.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
INVALID SDEC	Stack decrement (SDEC) field in statement such as MOVE or SCAN is out of range.	Check range for this SDEC constant and correct.
INVALID SUBSCRIPT	An index must be an integer expression.	Check expression used as index; correct.
LABEL IN ASSEMBLE STATEMENT MUST OCCUR	A label referenced in an ASSEMBLE statement cannot be found.	Check statement; either include label or remove reference.
LOCAL DECLARATION OVERFLOW	Too many local declarations; up to 127 words allowed.	Check and remove extra declarations.
LOCAL INITIALIZATION MUST BE PB	A local array can be initialized only in PB mode.	Check array declaration; change mode to PB, or make array global or an OWN array.
LOGICAL COMPARE EMITTED	Issued when a logical compare always gives the same result.	Warning that compare such as $L \geq 0$ is always true, $L < 0$ always false if L is logical variable.
MAY NOT GO TO ENTRY	A GO TO statement may not transfer to an entry label.	Check GO TO; change label.
MAY NOT TRACE EXTERNAL LABEL	Trace can only be made on label in program unit being compiled.	Check TRACE; change label to one in current program unit.
MAXIMUM REPEAT FACTOR 8191	The largest repeat factor allowed in an initialization list is 8191.	Check initialization list; lower repeat factor.
MISSING ASSIGNMENT OPERATOR	An assignment operator must appear in this context.	Check code; include assignment operator.
MISSING BEGIN	The compiler expects a BEGIN as the next symbol.	Check code; include BEGIN.
MISSING CCF	This ASSEMBLE instruction requires a CCF specification.	Check code; include CCF specification.
MISSING COLON	A colon (:) must appear in this context.	Check code; include colon.
MISSING COMMA	A comma (,) is expected in this context.	Check code; include comma.
MISSING DO	A DO must appear in this context.	Check code; include DO.
MISSING ELSE	An ELSE must appear in this context.	Check code; include ELSE.
MISSING EXPONENT	A valid exponent must follow a caret (^).	Check code; enter valid exponent.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
MISSING FORMAL PARAMETER	A specification is made for a non-existent formal parameter.	Check code; include formal parameter or delete specification.
MISSING LEFT PARENTHESIS	A left parenthesis is expected in this context.	Check code; include left parenthesis.
MISSING OF	A CASE statement does not contain the word OF.	Check CASE statement; include OF.
MISSING RIGHT BRACKET	A right bracket is only acceptable symbol at this point.	Check code and include right bracket.
MISSING RIGHT PARENTHESIS	A right parenthesis is expected at this point.	Check code; include right parenthesis.
MISSING SEMICOLON	A semicolon (;) or other separator is required in this context.	Check code; include semicolon.
MISSING SLASH	A slash is the only acceptable symbol at this point.	Check code; include slash.
MISSING SPECIFICATION	There is no specification for a formal parameter.	Check code; include specification for formal parameter.
MISSING SUBPROGRAM	A procedure specified in a \$CONTROL SUBPROGRAM command cannot be found.	Check code; correct name in command or include procedure.
MISSING THEN	A THEN must appear in this context.	Check code; include word THEN.
MISSING UNTIL	An UNTIL must appear in this context.	Check code; include word UNTIL.
MULTIPLE FORWARD DECLARATION	There is more than one forward declaration for this procedure.	Check declarations; remove redundant forward declaration.
MULTIPLE SPECIFICATIONS	A formal parameter is specified more than once.	Check code; remove extra formal parameter.
MUST BE DB	Only DB-relative addressing is allowed in this context.	Check address; correct to DB-relative.
MUST BE DB OR Q	Only DB-relative or Q-relative addressing allowed in this context.	Check address; correct to DB-relative or Q-relative.
MUST BE DOUBLE OR LOGICAL	Only a double-word or logical variable is allowed in this context.	Check variable; change to double or logical.
MUST BE INTEGER TYPE	The only valid type for this construct is integer.	Check code; use integer.
MUST BE INTEGER, LOGICAL OR BYTE	A one-word quantity is expected in this context.	Check code; correct to use one-word quantity.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
MUST BE LOCAL	Action allowed only for local is being performed on global variable.	Check code; correct variable.
MUST BE TYPE BYTE	Symbol must be type byte in this context.	Check symbol; correct if illegal or change to type byte.
MUST BE TYPE LOGICAL	Only a logical variable can appear in a Boolean expression.	Check expression; change to logical variable.
MUST BE TYPE PROCEDURE	In this context, procedure must be typed.	Check code; change to typed procedure.
MUST BE VALUE FORMAL PARAMETER	A reference parameter is not legal in this context.	Check parameter; change to formal parameter.
NESTED PROCEDURE NOT ALLOWED	A procedure declaration is within another procedure.	Check code; remove procedure declaration for other procedure.
NOT END OF COMMENT	Two greater-than symbols are separated by one or more blanks.	If intended as comment, remove blanks so symbols are adjacent (>>).
NOT INTRINSIC FILE	A file specified as an intrinsic file in INTRINSIC statement is not an intrinsic file.	Check file name; change to name of intrinsic file.
NOT ON INTRINSIC FILE	Procedure referenced in an INTRINSIC declaration is not on the intrinsic file.	Check procedure name and intrinsic file; change name or include intrinsic in file.
OUT OF RANGE BRANCH	An ASSEMBLE statement contains branch that is beyond range of direct branch.	Check statement; change range of branch or use indirect addressing.
PARAMETER NOT ALLOWED	Interrupt procedure that should have no parameters has a parameter.	Check procedure; remove parameter.
PARAMETER NUMBER INCOMPATIBLE	A procedure call has an incorrect number of parameters.	Check procedure; change number of parameters accordingly.
PARAMETER OUT OF RANGE	This parameter exceeds the maximum allowable displacement for this address mode.	Displacements may be: DB + 255, Q + 127, Q - 63, S - 63, P + 255, P - 255.
PARAMETER OVERFLOW	There are more than 31 parameters in this procedure.	Reduce number of parameters to 31 or fewer.
PARTIAL WORD ILLEGAL HERE	A partial word designator is not allowed in multiple store.	Break into several store statements to allow bit extraction.
PRIMARY DB OVERFLOW	A variable cannot be assigned with a DB-relative address greater than 255.	Correct to address within accepted bounds possibly by removing declarations.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
PRIMARY Q OVERFLOW	Variable cannot be assigned with Q-relative address greater than 127.	Correct assignment to address within acceptable bounds.
PROCEDURE TOO LARGE	The number of instructions in this procedure exceeds the limit. (Limit = 16,383).	Decrease number of instructions in procedure.
RECURSIVE DEFINE	Invoking this DEFINE statement would result in infinite loop.	Check text of DEFINE statement for identifier being defined.
RESERVED SYMBOL REDEFINED	Cannot define a constant or reserved word.	Check definition; omit reserved word or symbol.
SDEC TOO LARGE	Stack decrement in an ASSEMBLE statement is larger than largest allowed value.	Check statement; reduce stack decrement to acceptable value for context.
SECONDARY DB OVERFLOW	Too much data space is being allocated.	Check code, and reduce the size of arrays.
SEMICOLON NOT ALLOWED	A semicolon (;) cannot be used in this context.	Remove semicolon.
SEQUENCE ERROR	Input files contain images that are out of order.	Check input files; correct order.
SIZE INCOMPATIBILITY	Parameter value passed to a procedure has wrong number of words.	Check parameter size in procedure, and correct call.
SORT TABLE OVERFLOW	Table used to sort map output is full.	Symbol table map cannot be produced.
STRING TOO LARGE	This string exceeds 128 characters.	Reduce string size to acceptable limit.
SYMBOL TABLE ERROR	Some entries in the symbol table are no longer valid.	Symbol table map cannot be produced.
SYMBOL TABLE OVERFLOW	The compiler limit for the number of symbols has been exceeded.	Reduce number of symbols in program and recompile.
STACK OVERFLOW MAY BE IRRECOVERABLE	If stack overflow occurs and Q and S set in same instruction, process may terminate.	Separate into two instructions; e.g., SET (Q), SET (S), not SET (Q,S).
SUBPROGRAM TABLE OVERFLOW	Overflow in table where subprogram names to be compiled are stored.	Reduce number or size of names to total of 252 characters plus 1 extra for each name.
SUBPROGRAM & USLINIT	Warning: This compilation specifies both subprogram and USLINIT, resulting in no outer block.	Before preparing program compile main program so there is an outer block.

Table 3-1. SPL Compiler Error Messages (Continued)

MESSAGE	MEANING	ACTION
TRACE HEADER TOO LARGE	Too many symbols being traced resulting in table overflow.	Reduce number of symbols to be traced.
TYPE INCOMPATIBILITY	In arithmetic statement, two operands of different type are combined.	Change one or both operands so that they are the same type (REAL, LONG, etc.) or use type conversions.
TYPE PROCEDURE STORE OUT OF RANGE	A procedure name can appear on the left-hand side of a replacement operator (:=) only within the scope of the procedure with the same name.	Check procedure name; correct name or remove statement.
UNDECLARED IDENTIFIER	An identifier used in a statement has not been declared in a declaration.	Declare identifier or change identifier name to a declared identifier. (Check spelling.)
USL FILE OVERFLOW	The USL file is full. Default number of records is 400.	Build larger USL file; recompile.
@ NOT ALLOWED	An @ is not legal in this context.	Remove @.

Table 3-2. BUILDINT Error Messages

MESSAGE	MEANING	ACTION
DECLARED TWICE	The identifier in question is not unique.	Correct to unique identifier.
EXPECTS A SEMICOLON	Only a comma or a semicolon is legal at this point.	
EXPECTS IDENTIFIER	An identifier is the only legal symbol at this point.	
EXPECTS NUMBER	The CHECK option has been specified but no legal check level follows.	
FORWARD OPTION IS ILLEGAL	The FORWARD option has been specified in a context where it is illegal.	
ILLEGAL SYMBOL	A left bracket, asterisk, or slash has been encountered, none of which are acceptable.	
INTERRUPT PROCEDURE MUST NOT HAVE PARAMETER	An interrupt procedure has been declared with a parameter; a parameter is illegal in this context.	

Table 3-2. BUILDINT Error Messages (Continued)

MESSAGE	MEANING	ACTION
MISSING SPECIFICATION	A formal parameter has not been given a type specification.	Rewrite the intrinsic without subroutines. Reduce the number of formal parameters. Either include the formal parameter or remove the value specification.
NUMERIC SYMBOL NOT ALLOWED	A fraction has been encountered which is not acceptable.	
READ ERROR	An error occurred while reading from the input file.	
SPECIFICATION DOES NOT CORRESPOND	There is no formal parameter with the name used in this specification.	
SUBROUTINES NOT ALLOWED	Subroutines are illegal in the intrinsic file.	
TOO MANY PARAMETERS	There are more than 31 formal parameters.	
TOO MANY OR ILLEGAL ATTRIBUTES	A specification for an identifier was made with more than one type or more than one class.	
VALUE SPECIFICATION DOES NOT CORRESPOND	A value specification exists for a non-existent formal parameter.	

FORTRAN COMPILER MESSAGES

During compilation of FORTRAN 3000 source programs, the compiler prints error messages to indicate conditions that prevent successful compilation of the program unit, and warning messages that warn of marginal conditions that do not prevent compilation but may cause unsuccessful execution of the compiled program unit. Both the warning and error messages that may occur are listed in table 3-3, together with the probable cause of their being issued and, where possible, the corrective action to be taken.

ERROR MESSAGES

When an error condition occurs, the compiler prints a message in the form:

*****ERROR *nnn**** *message text***

where *nnn* is the error code number and *message text* is a brief description of the error condition.

Error messages, as opposed to warnings, are fatal to the program unit. Although the compiler continues to compile in order to detect any further errors, the object code generated for the current program unit is deleted. The compiler attempts to successfully compile the next program unit. If the compilation was requested by a :FORTPREP or :FORTGO command, the preparation and execution stages are suppressed.

Note that error messages are indicated by an E in the Type column in table 3-3. When you receive an error message, you must correct the error and recompile.

WARNING MESSAGES

When a warning condition occurs, the compiler prints a message in the form:

****WARNING *nnn*** *message text***

where *nnn* is the message number and *message text* is a brief description of the warning condition.

Although warnings do not prevent successful compilation of a program unit or the generation of object code, they may cause program execution errors. For this reason, the warning condition should be corrected and the program unit recompiled.

Note that warning messages are indicated by a W in the Type column in table 3-3. When you receive a warning message, you should correct the error and recompile unless you are sure that the particular condition will not interfere with successful program execution.

ERROR POSITION INDICATION

Error and warning messages relate to the source code in several ways, depending on the type of message at the time the compiler prints the message.

During the syntax scanning, the compiler usually prints an up arrow (↑) or caret (^) at or to the right of the error position in the line. If the compiler is not producing a source listing, the last line examined is printed before the error message is printed.

Some error messages do not refer to any particular part of the program (e.g., TOO MANY TRACE SYMBOLS) and have no error indication other than the message. (The solution is not tied to one symbol or statement.) In some cases, such as solving equivalences, the compiler prints an error message after reading the entire program unit. The compiler indicates which statement is being processed by printing the message:

AT statement number + offset

where *statement number* is the label of the offending statement or the closest preceding statement label if the offending statement is not labeled. *Offset* is a count of the number of statements the offending statement is from the label preceding it. These messages also include the name of the variable being processed when the compiler notices the error.

Error messages such as TRACE SYMBOL NOT FOUND include a variable name or a label name to indicate the area of the program in error since the error depends upon omitted statements or statement parts.

UNDEFINED VARIABLE DETECTION

A warning message is displayed if a variable appears in one or more of the following:

1. On the right hand side of an assignment statement.
2. As a value parameter to a subprogram.
3. As a list element in a WRITE or DISPLAY statement.

And if the *same* variable is *not* used in one or more of the following:

1. On the left hand side of an assignment statement.
2. As a list element in a READ statement.
3. In a DATA statement.
4. As a formal parameter.
5. As a reference parameter to a subprogram.
6. In an EQUIVALENCE statement.
7. In a COMMON statement.

The warning appears at the end of each program unit.

Figure 3-2 illustrates undefined variable detection.

*FORTGO ENF2

PAGE 0001 HP32102B.00.01

```
00001000 $CONTROL USLINIT
00002000 PROGRAM SUBPRFUNCTION
00003000 C      UNDEFINED VARIABLE DETECTION EXAMPLE
00004000      INTEGER FACTORIAL
00005000      ACCEPT L
00006000      IFACT=FACTORIAL(L)
00007000      STOP
00008000      END
```

```
00009000      INTEGER FUNCTION FACTORIAL(N)
00010000      IF(N-1) 20,20,10
00011000 10    FACTORIAL=M*FACTORIAL(N-1)
00012000      RETURN
00013000 20    FACTORIAL=1
00014000      RETURN
00015000      END
** WARNING 226 ** REFERENCED VARIABLE NOT DEFINED M
```

**** NO ERRORS, 1 WARNING ****
PROGRAM UNIT FACTORIAL COMPILED

```
****      GLOBAL STATISTICS      ****
**** NO ERRORS, 1 WARNING ****
TOTAL COMPILATION TIME 0:00:01
TOTAL ELAPSED TIME 0:00:33
```

END OF COMPILE

END OF PREPARE

?
-15

END OF PROGRAM
:

Figure 3-2. Undefined Variable Detection Example

Table 3-3. FORTRAN Compiler Warning & Error Messages

NO.	TYPE	MESSAGE	MEANING	ACTION
0	E	COMPILATION TERMINATED	An error has occurred which aborts the compilation. Compiler appends cause of termination as part of message.	Examine listing. Fix all errors and recompile.
1	W	NON-DIGIT IN LABEL FIELD	Label can consist only of numbers. Compiler ignores label field.	Correct label and other references to it in program.
2	W	CONTINUATION LINE IN LABEL FIELD	Continuation line text entered in fixed format begins before column 7. Compiler ignores text in label field.	Correct position of text in line.
3	W	SYMBOLIC NAME EXCEEDS 15 CHARACTERS	A symbolic variable name exceeds 15 characters. Compiler truncates name to 15 characters.	Check all references to symbolic name and make sure they are consistent.
4	W/E	EXPECTED A COMMA	Compiler detected a missing comma. If warning, compilation continues as if comma included; if error, comma required.	None if warning; comma can be included for future compilations. If error, comma must be inserted.
5	W	EXTRANEIOUS COMMA	Compiler detected an unnecessary comma and ignored it.	None required. Can correct for future compilations by deleting comma.
7	W	UNEXPECTED CHARACTER	Compiler detected an unexpected character and ignored it.	Examine statement format and delete extra character.
8	W	UNEXPECTED '-'	Compiler detected an unexpected hyphen or minus sign in a FORMAT statement. Unchanged statement is passed to the Formatter.	Check statement to determine whether '-' is necessary. If not, remove it.
9	W	UNEXPECTED COMMA	Compiler detected an unexpected comma in FORMAT statement. Unchanged statement is passed to the Formatter.	Check statement to determine whether comma is necessary. If not, remove it.
10	W	UNEXPECTED ')'	Compiler detected an unexpected right parentheses in FORMAT statement. Unchanged statement is passed to Formatter.	Check statement to determine whether ')' is necessary. If not, remove it.
11	W/E	EXPECTED AN INTEGER	Compiler expected to find an integer in FORMAT statement. Unchanged statement is passed to Formatter. If compiler control statement caused warning, unrecognized item ignored. If error, integer required.	Check statement to determine whether integer is necessary. If so, insert appropriate integer. If error, integer must be included and program recompiled.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
12	W/E	EXPECTED A '.'	If warning, compiler expected decimal point in FORMAT statement; unchanged statement is passed to Formatter. If error reserved token such as .OR. requires trailing period.	Check statement to determine whether decimal point is necessary. If so, insert it.
13	W	EXPECTED A 'P'	Compiler expected a scale factor identifier in FORMAT statement. Unchanged statement is passed to Formatter.	Check statement to determine whether scale factor identifier is necessary. If so, insert it.
14	W	UNEXPECTED 'P'	Compiler encountered an unexpected scale factor identifier in FORMAT statement. Unchanged statement is passed to Formatter.	Check statement to determine whether scale factor identifier is necessary. If not, remove it.
15	W	NESTING EXCEEDS 5 LEVELS	A group of format and edit specifications in a FORMAT statement includes groups at a level greater than 4, making the total number of levels greater than 5.	Revise statement so that no group includes more than 4 levels of other groups.
16	E	EXTRANEIOUS SOURCE	Compiler encountered symbol that is not logically part of statement. Since preceding part of statement is logically complete, compiler deleted symbol and following text, compiled text preceding symbol.	Examine statement format and make necessary change.
17	W	MULTIPLE SEGMENT NAMES	Segment names not the same when more than one \$SEGMENT command without intervening program unit is specified. Compiler uses last observed segment name.	None.
18	W	SYMBOLIC NAME REDUNDANTLY TYPED	Symbolic name assigned the same type more than once. Compiler takes no action.	Remove redundant type declaration. Current compilation unaffected.
19	W	SYMBOLIC NAME REDUNDANTLY EXTERNALLED	Symbolic name appears in more than one EXTERNAL statement. Compiler takes no action	Remove name from extra EXTERNAL statement later. Current compilation unaffected.
20	W	EXTRANEIOUS EQUATE GROUP	One of the list parameters of an EQUIVALENCE statement contains only one item.	Insert two or more variable names which share same storage in EQUIVALENCE list parameter (equate group).
22	W	EXTRA INITIAL VALUES	DATA statement contains more values than variables.	Check statement and either add missing variable or delete extra value.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
23	W	EXTRANEIOUS DATA ITEM	Compiler discovered variable name in a DATA statement in a BLOCK DATA subprogram which is not also in a COMMON block.	Check both DATA and COMMON statement for consistent variable names.
24	W	NO INITIAL VALUES	Compiler discovered a BLOCK DATA subprogram that did not specify initial values for a labeled COMMON block.	Check both DATA and COMMON statement for consistent variable names.
25	W	INITIAL VALUE TRUNCATED	Compiler truncated an initial value that was too large for its type.	Determine correct value and replace existing one in DATA statement.
26	W	STATEMENT FUNCTION DUMMY USED AS NON-SIMPLE VARIABLE	A dummy argument in a statement function is referenced elsewhere in subprogram as a non-simple variable, for example, as an array or procedure.	Review calling program unit to determine nature of inconsistency, make any necessary changes, and re-compile.
27	W	EXPRESSION VS. NON-EXPRESSION ARGUMENT	Compiler discovered inconsistency between argument structure in this procedure call and previous procedure call in this program unit.	
28	W	SUBPROGRAM VS. NON-SUBPROGRAM ARGUMENT	Compiler discovered inconsistency between this and previous subprogram call in this program unit, such as subprogram name passed in one but not the other.	
29	W	SUBROUTINE VS. FUNCTION ARGUMENT	Compiler discovered inconsistency between actual arguments in two subprogram calls in this program unit.	
30	W	ARGUMENT TYPE INCONSISTENT	Calls made to the same subroutine reference the same dummy argument with actual arguments of different types.	
31	W	SUBPROGRAM NAME NOT EXTERNALLED	Compiler discovered a subprogram name not mentioned in an EXTERNAL statement.	Add EXTERNAL statement to calling program, and recompile.
32	W	ARGUMENTS OF NESTED REFERENCE NOT CHECKED	Compiler discovered a recursive call in the actual argument list of procedure call and informed user that only the actual arguments of initial call (not recursive call) are checked.	None.
33	W	INTRINSIC NAME CONVERTED TO SIMPLE VARIABLE	Compiler converted an intrinsic name to a simple variable. Name cannot refer to intrinsic in remainder of subprogram.	None.
34	W	STATEMENT CANNOT BE REACHED	Compiler discovered statement that cannot be reached (for example, an unlabeled statement following a RETURN statement).	Check program logic and add statement number if necessary.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
36	W	RETURN OR STOP INSERTED	Compiler inserted a RETURN or STOP statement because an unlabeled END statement was not preceded by an unconditional transfer of control.	None. STOP or RETURN can be added if desired.
37	W	BLANK LINE ILLEGAL	Statement consisting of a blank line is illegal under ANSI standard. (All statements must have a keyword.) In general, compiler ignores blank line. If it follows END statement, compiler is reinitialized and ready to compile next program of which blank line is first statement.	None. Blank lines should be deleted.
38	E	TOO MANY CONTINUATION LINES	Statement consists of too many continuation lines. Compiler deletes entire statement.	Alter program logic as needed and recompile.
39	W	EXPECTED CONTINUATION LINE	Compiler expected a continuation line and did not find one.	Check source for possible missing text.
40	W	EXPECTED COMPILER CONTROL KEYWORD	Compiler discovered missing keyword, unrecognized keyword, or incomplete parameter. Compiler skipped past the next comma and continued to compile.	Make changes as necessary and recompile.
41	E	EXPECTED SYMBOLIC NAME	Compiler did not find symbolic name where one was required for proper statement form. Compiler deleted statement.	Alter source code and recompile.
42	W	NOT ACCEPTABLE AT THIS POINT	Compiler control command appeared too late in program; compiler ignored command.	Move compiler command if necessary and recompile.
43	E	IMPROPER STATEMENT LABEL	Compiler discovered improper statement label and ignored it.	Alter source code and recompile.
44	W	TRACE SYMBOL NOT FOUND	Compiler could not find symbol mentioned in TRACE command.	Alter \$TRACE command and recompile.
45	W	INTRINSIC IN TRACE RECORD	Compiler discovered intrinsic name in TRACE command. Intrinsic will not be traced.	Alter \$TRACE command if desired.
46	W	EXPECTED A '='	Compiler expected an = sign in compiler control command and skipped to next comma.	Alter command and recompile.
47	E	SEQUENCE FIELD TOO LONG	In free field format or in compiler control command, sequence number > 8 characters; compiler truncated to 8 characters.	None. Check source code for validity.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
48	W	OUT OF SEQUENCE	Statement containing sequence number is out of sequence. Statement compiled as if it were next in sequence.	Check source code for validity and recompile if necessary.
49	W	TITLE TOO LONG	Title specified in \$TITLE command exceeds 52 characters. Compiler truncated the title.	Check \$TITLE command.
50	E	PROGRAM UNIT ABORTED	Compiler terminated the program unit being compiled but continues to compile succeeding program units.	Check compiler output, correct source code, and recompile.
51	E	EXPECTED A '('	Compiler expected left parenthesis. Statement deleted.	Alter source code and recompile.
52	E	EXPECTED A ')'	Compiler expected right parenthesis. Statement deleted.	Alter source code and recompile.
53	E	EXTRANEIOUS ')'	Compiler ignored an extra right parenthesis.	Alter source code and recompile.
55	E	EXPECTED A ']'	Compiler expected right bracket. Statement deleted.	Alter source code and recompile.
56	E	EXPECTED A '['	Compiler expected left bracket. Statement deleted.	Alter source code and recompile.
58	E	EXPECTED ASSIGNMENT OPERATOR	Compiler expected an = sign. Statement deleted.	Alter source code and recompile.
59	E	EXPECTED A '/'	Compiler expected a (/) and deleted the statement.	Alter source code and recompile.
60	E	EXPECTED A QUOTE	Compiler expected a string delimiter (') or ("). Statement deleted.	Alter source code and recompile.
61	E	EXPECTED A '\ '	Compiler expected a back slash (\) in a parameter list. Statement deleted.	Alter source code and recompile.
63	E	IMPOSSIBLE CONTEXT FOR '.'	Compiler found a period which did not logically fit into the statement syntax and ignored it.	Alter source code and recompile.
64	E	IMPOSSIBLE CONTEXT FOR '%'	Compiler found a percent sign (%) which did not logically fit into the statement syntax and ignored it.	Alter source code and recompile.
65	E	IMPOSSIBLE CONTEXT FOR '\$'	Compiler found a dollar sign (\$) out of context and ignored it.	Alter source code and recompile.
67	E	SYMBOLIC NAME EXCEEDS 255 CHARACTERS	Compiler found a symbolic name exceeding 255 characters and deleted the statement containing the name.	Alter source code and recompile.
68	E	NUMBER EXCEEDS 255 CHARACTERS	Compiler found a number exceeding 255 characters and deleted the statement containing the number.	Alter source code and recompile.
69	E	STRING LITERAL EXCEEDS 255 CHARACTERS	Compiler found a string literal exceeding 255 characters and deleted the statement containing the string.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
70	E	HOLLERITH LITERAL EXCEEDS 255 CHARACTERS	Compiler found a Hollerith literal exceeding 255 characters and deleted the statement.	Alter source code and recompile.
71	E	HOLLERITH LITERAL TOO SHORT	Compiler found a Hollerith literal shorter than that specified by the length element of the literal and deleted the statement containing the literal.	Alter source code and recompile.
72	E/W	NON-OCTAL DIGIT	Compiler found a non-octal digit in an octal value and ignored the octal number.	Alter source code and recompile.
73	E	EXPECTED FIELD WIDTH	Compiler expected field width in composite number, and deleted the statement when no field width was found.	Alter source code and recompile.
74	E	EXPECTED FIELD VALUE	Compiler expected field value in composite number, and deleted the statement when no field value was found.	Alter source code and recompile.
75	E	PACKED NUMBER OVERFLOW	Composite or ASCII number overflowed; compiler used arbitrary value contained in the data space.	Check program logic, alter source code if necessary and recompile.
76	E	INTEGER CANNOT BE 0	Compiler encountered an integer value which cannot be 0 and changed it to 1.	Check program logic, alter source code if necessary and recompile.
77	E	INTEGER EXCEEDS CONTEXTUAL LIMITS	Absolute value of integer is too large in statement context; compiler sets value to 1.	Check program logic, alter source code if necessary and recompile.
78	E	INTEGER OVERFLOW	Integer overflow occurred and compiler used whatever arbitrary value was contained in the data space.	Check program logic, alter source code if necessary and recompile.
79	E	EXPECTED EXPONENT VALUE	Expected exponent value was incorrect or not supplied and compiler deleted the statement.	Alter source code - check data types and constants - recompile.
80	E	FLOATING LITERAL UNDER/OVERFLOW	Floating-point literal caused under or overflow and compiler used whatever arbitrary value was contained in the data space.	Change floating-point, literal to number within acceptable range, recompile.
81	E	IMPROPER COMPLEX LITERAL	Compiler found an improper complex literal and deleted statement containing it.	Change complex literal to correct format - recompile.
84	W	MISSING END LINE	Compiler expected an END statement at this point and supplied one.	Insert END statement before compile program again. Current compilation not affected.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
85	E	UNEXPECTED CONTINUATION LINE	Compiler did not expect a continuation line to be used and deleted the entire statement up to (but not including) the next non-continuation line.	Alter source code and recompile.
87	E	RESERVED TOKEN NOT RECOGNIZED	Compiler expected a reserved symbol such as .OR. or .TRUE. and did not find one.	Alter source code and recompile.
88	E	CANNOT RECOGNIZE KEYWORD	Compiler expected FORTRAN/3000 keyword such as INTEGER or REAL or END and deleted statement when keyword was not recognized.	Alter source code and recompile.
89	E	CANNOT CLASSIFY STATEMENT	Statement possibly did not begin with a letter or is missing a right parenthesis so that compiler is totally unable to recognize statement.	Alter source code and recompile.
91	E	STATEMENT OUT OF POSITION	Compiler found declaration statement following an executable statement or declaration out of order relative to other declaration statements; statement deleted.	Alter source code and recompile.
92	E	DUMMY NAME NOT UNIQUE	Compiler found dummy parameter name not unique to program unit where it appears.	Alter source code and recompile.
93	E	IMPROPER DUMMY ARGUMENT	Compiler found improper dummy argument and stopped checking argument list.	Alter source code and recompile.
94	E	ARGUMENT ADDRESSIBILITY EXCEEDED	Compiler found more than 54 arguments in subroutine or function or too many arguments in statement function (in statement function, number of arguments allowed depends on type and complexity of expression).	Refer to Section XI of FORTRAN/3000 reference manual for rules; alter source code accordingly and recompile.
95	E	TOO MANY ALTERNATE RETURNS	Compiler found too many alternate return points specified in subprogram.	Refer to Section XI of FORTRAN/3000 reference manual for rules; alter source code accordingly and recompile.
96	E	IMPROPER TYPE CONSTRUCT	Compiler has found incorrect type construct and deleted statement.	Alter source code and recompile.
97	E	IMPROPER INITIAL LETTER CONSTRUCT	Format of letter construct in IMPLICIT statement is incorrect; statement is deleted.	Correct IMPLICIT statement and recompile.
99	E	SUBROUTINE CANNOT BE TYPED	Compiler has found subroutine subprogram with type explicitly declared.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
100	E	SYMBOLIC NAME TYPED INCONSISTENTLY	Compiler has found symbolic name whose type was declared in a manner inconsistent with a previous declaration.	Alter source code and recompile.
102	E	DYNAMIC BOUND DIMENSIONED	Compiler has found a dynamic bound defined in DIMENSION statement. Within subprogram, bound must be passed parameter.	Alter source code and recompile.
103	E	PROCEDURE DIMENSIONED	Compiler found procedure name in DIMENSION statement.	Alter source code and recompile.
104	E	ARRAY REDUNDANTLY DIMENSIONED	Compiler found an array whose dimensions were defined more than once in same program unit.	Alter source code and recompile.
105	E	EXPECTED BOUND	Compiler expected an array bound and deleted the statement.	Alter source code and recompile.
106	E	ARRAY EXCEEDS 32767 ELEMENTS	Compiler found an array defined with more than 32767 elements.	Alter source code and recompile.
107	E	NUMBER OF BOUNDS EXCEEDS 255	Compiler found an array with more than 255 bounds.	Alter source code and recompile.
108	E	DYNAMIC STRUCTURE IN COMMON	Compiler found a dynamically-defined array in COMMON statement.	Alter source code and recompile.
109	E	DUMMY NAME IN COMMON	Compiler found dummy parameter name in COMMON statement.	Alter source code and recompile.
110	E	ITEM IN COMMON TWICE	Compiler found item appearing in COMMON statement twice.	Alter source code and recompile.
111	E	COMMON BLOCK NAME ALSO PROCEDURE NAME	Compiler found name used as a COMMON block name and as name of a procedure.	Alter source code and recompile.
112	E	PROCEDURE NAME IN COMMON	Compiler found procedure name appearing in COMMON statement.	Alter source code and recompile.
113	E	CHARACTER FUNCTION HAS DYNAMIC LENGTH	Compiler found character function defined with dynamic length (using a variable length specification).	Alter source code and recompile.
114	E	SIMPLE VARIABLE OR ARRAY EXTERNALLED	Compiler found simple variable or array name used in an EXTERNAL statement.	Alter source code and recompile.
116	E	DYNAMIC STRUCTURE IN EQUATE	Compiler found a dynamic array (defined with variable memory allocation) used in EQUIVALENCE statement.	Alter source code and recompile.
117	E	DUMMY NAME IN EQUATE	Compiler found dummy parameter name in EQUIVALENCE statement.	Alter source code and recompile.
118	E	PROCEDURE NAME IN EQUATE	Compiler found procedure name in EQUIVALENCE statement.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
120	E	DYNAMIC STRUCTURE IN DATA	Compiler found a dynamic structure in DATA statement.	Alter source code and recompile.
121	E	DUMMY NAME IN DATA	Compiler found dummy parameter name in DATA statement.	Alter source code and recompile.
122	E	PROCEDURE NAME IN DATA	Compiler found procedure name in DATA statement.	Alter source code and recompile.
123	E	COMMON ITEM IN DATA	Compiler found data item in COMMON in a DATA statement.	Alter source code and recompile.
124	E	EXPECTED INITIAL VALUE	Compiler expected an initial value for data element. Statement deleted when none was found.	Alter source code and recompile.
125	E	INITIAL VALUE TYPE IMPROPER	Compiler found initial value not coinciding with defined data element type.	Alter source code and recompile.
126	E	UNARY SIGN REQUIRES ARITHMETIC LITERAL	Compiler found minus or plus sign with no constant following.	Alter source code and recompile.
127	E	NUMBER OF SUBSCRIPTS <> NUMBER OF BOUNDS	Compiler found array element with a different number of elements than were specified for the array in the array declaration.	Alter source code and recompile.
128	E	ARRAY EXCEEDS 32767 WORDS	Compiler found array that occupies more than 32767 words of memory.	Alter source code and recompile.
129	E	SUBSCRIPT VALUE NOT IN ARRAY	Compiler found array element subscript that indicates memory location outside defined bounds of array.	Alter source code and recompile.
131	E	LOCAL ADDRESSIBILITY EXCEEDED	Compiler was unable to address all of the local variables in program unit.	Alter source code and recompile.
132	E	DYNAMIC BOUND NOT DUMMY INTEGER	Compiler found dynamic bound not represented by dummy integer.	Alter source code and recompile.
134	E	DATA BLOCK TOO LARGE	Compiler found data block larger than 32767 words.	Alter source code and recompile.
135	E	COMMON BLOCK TOO LARGE	Compiler found common block larger than 32767 words.	Alter source code and recompile.
136	E	COMMON EXTENDED FORWARD	Compiler found EQUIVALENCE statement that has attempted to extend common data space from beginning instead of from the end.	Alter source code and recompile.
137	E	EQUATE BLOCK TOO LARGE	Compiler found group of EQUIVALENCE statements which equivalence too large a block of data (more than 32767 words).	Alter source code and recompile.
140	E	WORD STRUCTURE ALIGNED ON BYTE BOUNDARY	Compiler found data value aligned by an EQUIVALENCE statement on a half-word (byte) boundary instead of full-word boundary.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
141	E	DATA BLOCK ITEM EQUATED TO COMMON BLOCK ITEM	Element defined in data block was illegally used in a common block; should have been in block data subprogram.	Alter source code and recompile.
142	E	TWO COMMON BLOCKS EQUATED	Compiler found two common blocks whose elements are equated through EQUIVALENCE statement.	Alter source code and recompile.
143	E	INCONSISTENT EQUATE	Array elements in EQUIVALENCE statement cause other elements of arrays to equate improperly; or two elements are equated that require unique data space (label values).	Alter source code and recompile.
144	E	SIMPLE VARIABLE HAS SUBSCRIPT	Compiler found simple variable with a subscript.	Alter source code and recompile.
145	E	EXPECTED STATEMENT LABEL	Compiler expected statement label and deleted statement when no label was found.	Alter source code and recompile.
147	E	DUPLICATE LABEL	Compiler found duplicate statement label and ignored the second occurrence.	Alter source code and recompile.
148	E	UNRESOLVED LABEL REFERENCE	Compiler found label referenced in statement but never found statement prefixed by that label. Referenced label ignored.	Alter source code and recompile.
149	E	FORMAT REFERENCE TO NON-FORMAT	Compiler found statement label reference to a non-FORMAT statement when a FORMAT statement was expected.	Alter source code and recompile.
150	E	EXECUTABLE REFERENCE TO NON-EXECUTABLE STATEMENT	Compiler found statement label reference to a non-executable statement.	Alter source code and recompile.
153	E	SUBROUTINE USED AS PRIMARY	Compiler found subroutine name used as a primary.	Alter source code and recompile.
154	E	EXPECTED ARITHMETIC PRIMARY	Compiler expected to find an arithmetic primary and deleted the statement when no primary was found.	Alter source code and recompile.
155	E	NON-ARITHMETIC PRIMARY WHERE ARITHMETIC EXPECTED	Compiler found non-arithmetic primary such as a logical variable when it expected an arithmetic primary and deleted statement.	Alter source code and recompile.
156	E	NON-LOGICAL OPERAND WHERE LOGICAL EXPECTED	Compiler expected to find a logical operand and deleted statement when non-logical operand was found.	Alter source code and recompile.
157	E	RELATIONAL OPERAND HAS LOGICAL TYPE	Compiler found logical operand in arithmetic relation. Statement deleted.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
158	E	CHARACTER VS. ARITHMETIC RELATION	Compiler expected arithmetic relation and deleted statement when character relation was found.	Alter source code and recompile.
159	E	ILLEGAL RELATION FOR COMPLEX OPERANDS	Compiler found illegal relational operator between two complex values.	Alter source code and recompile.
160	E	OPERAND OF .NOT. NOT LOGICAL	Compiler found non-logical operand following a .NOT. operator and deleted statement.	Alter source code and recompile.
161	E	IMPROPER STRING DESIGNATOR	Compiler discovered substring designator in improper form and deleted statement.	Alter source code and recompile.
162	E	COMPLEX POWER	Compiler found number raised to a complex power.	Alter source code and recompile.
163	E	COMPLEX BASE TO NON-INTEGER POWER	Compiler found complex number raised to non-integer power.	Alter source code and recompile.
164	E	STRING EXPRESSION IN PARENTHESIS	Compiler found string expression in parenthesis when it expected arithmetic expression and deleted statement.	Alter source code and recompile.
165	E	PARTIAL-WORD EXCEEDS 15 BITS	Compiler found partial-word designator that specifies more than 15 bits.	Alter source code and recompile.
166	E	IMPROPER TYPE FOR PARTIAL-WORD DESIGNATOR	Compiler found partial-word designator operating on data item of improper type.	Alter source code and recompile.
167	E	COMPLEX INDEX EXPRESSION	Compiler found index expression of type complex.	Alter source code and recompile.
168	E	COMPLEX SUBSCRIPT	Compiler found subscript value of type complex.	Alter source code and recompile.
169	E	RECURSIVE STATEMENT FUNCTION	Compiler found a recursively defined statement function and deleted the statement.	Alter source code and recompile.
170	E	SUBROUTINE MISSING ARGUMENTS	Compiler found subroutine call with with improper number of arguments.	Alter source code and recompile.
171	E	FUNCTION MISSING ARGUMENTS	Compiler found function definition with no arguments.	Alter source code and recompile.
172	E	REDEFINITION OF USED INTRINSIC	Compiler found intrinsic that had been redefined to a simple variable after being called; statement deleted.	Alter source code and recompile.
173	E	MISSING SUBSCRIPT	Compiler found missing subscript for an array name and deleted statement.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
174	E	ILLEGAL ARGUMENT FOR INTRINSIC	Compiler found illegal argument for intrinsic and deleted statement.	Alter source code and recompile.
176	E	TOO FEW ARGUMENTS	Compiler found procedure with too few arguments compared with previous usage.	Alter source code and recompile.
177	E	TOO MANY ARGUMENTS	Compiler found procedure with too many arguments compared with previous usage.	Alter source code and recompile.
178	E	VALUE VS. REFERENCE ARGUMENT	Argument passed by value when previous usage caused compiler to expect argument passed by reference.	Alter source code and recompile.
179	E	CHARACTER ARGUMENT BY VALUE	Compiler found character argument being passed by value.	Alter source code and recompile.
180	E	NO LIMIT PARAMETER	Compiler found missing limit parameter in DO statement or implied-DO in an I/O statement.	Alter source code and recompile.
181	E	TERMINAL LABEL PRECEDES DO STATEMENT	Compiler found DO-loop terminal label preceding DO-loop DO statement. DO statement skipped.	Alter source code and recompile.
182	E	IMPROPERLY NESTED DO STATEMENTS	Compiler found improperly nested (overlapping) DO statements. Current DO statement skipped or DO loop closed early.	Alter source code and recompile.
183	E	INTEGER SIMPLE VARIABLE EXPECTED	Compiler expected integer simple variable but did not find one.	Alter source code and recompile.
184	E	IMPROPER TERMINAL STATEMENT	Compiler found an improper termination statement in a DO loop.	Refer to manual for restrictions on DO loop termination statements. Alter source code and recompile.
185	E	UNDECLARED ARRAY NAME	Compiler found symbolic name used as array but not defined as such. Statement deleted.	Alter source code and recompile.
186	E	LEFT-HAND IS FUNCTION OR SUBROUTINE	Compiler found function or subroutine on left side of assignment operator and deleted statement.	Alter source code and recompile.
188	E	RIGHT AND LEFT-HAND TYPES INCOMPATIBLE	Compiler found incompatible types in left and right sides of assignment statement.	Alter source code and recompile.
189	E	DUMMY HAS TYPE CHARACTER	Compiler found dummy parameter to a statement function that is type character.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
191	E	CHARACTER STATEMENT FUNCTION	Compiler found character-type statement function and deleted statement.	Alter source code and recompile.
194	E	UNABLE TO CLASSIFY GOTO	Compiler was unable to classify a GO TO statement as one of the three allow- able types and deleted statement.	Alter source code and recompile.
196	E	IMPROPER ASSIGN	Compiler found an improper ASSIGN statement and deleted statement.	Alter source code and recompile.
197	E	EXPECTED LOGICAL EXPRESSION	Compiler expected logical expression but none was found.	Alter source code and recompile.
198	E	IMPROPER LOGICAL CLAUSE	Compiler found improper logical clause and deleted statement.	Alter source code and recompile.
199	E	IMPROPER DEPENDENT STATEMENT	Compiler found improper dependent statement in IF statement.	Alter source code and recompile.
200	E	ALTERNATE RETURN IN NON-SUBROUTINE	Compiler found alternate RETURN statement in a function, main program, or block data subprogram.	Alter source code and recompile.
201	E	LABEL ARGUMENTS OUT OF POSITION	Compiler found label arguments appear- ing elsewhere than at the end of the subroutine argument list. Statement deleted.	Alter source code and recompile.
202	E	SYMBOL NOT SUBROUTINE NAME	Compiler encountered symbolic name where subroutine name expected. Statement deleted.	Alter source code and recompile.
203	E	EXPRESSION IN INPUT LIST	Compiler found expression in I/O input list.	Alter source code and recompile.
204	E	IMPROPER I/O LIST ITEM	Compiler found improper I/O list item in I/O statement and deleted statement.	Alter source code and recompile.
205	E	EXPECTED I/O LIST	Compiler expected I/O list and none was found. Statement deleted.	Alter source code and recompile.
206	E	IMPROPER UNIT REFERENCE	Compiler found improper unit reference in I/O statement. Statement deleted.	Alter source code and recompile.
207	E	EXPECTED CHARACTER VARIABLE	Compiler expected character variable for core-to-core I/O operation. State- ment deleted.	Alter source code and recompile.
208	E	EXPECTED FORMAT REFERENCE	Compiler expected format reference in I/O statement and none was found. Statement deleted.	Alter source code and recompile.
209	E	EXPECTED ACTION LABEL	Compiler expected action label in I/O statement and none was found. Statement deleted.	Alter source code and recompile.

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
210	E	DUPLICATE ACTION LABEL	Compiler found duplicate action label.	Alter source code and recompile.
211	E	TOO MANY TRACE SYMBOLS	TRACE/3000 symbol table overflowed.	Alter source code and recompile.
212	E	DATA SPACE OVERFLOW	The program stack size required exceeds 32767 words.	Decrease array sizes, or variables used, and recompile.
213	E	CODE SPACE OVERFLOW	Program code space overflowed.	Alter source code and recompile.
214	E	OUT OF STACK FOR GLOBAL CROSS REFERENCE	Global cross reference processor cannot fit its tables in stack space available. No global cross reference is produced.	If system-wide MAX-DATA limit is less than 32767, have System Manager raise limit and recompile.
215	E	EXPECTED AN INTEGER OR STRING	Argument to STOP or PAUSE statement could not be identified. Argument is ignored.	Alter source code and recompile.
216	E	TRAP TYPE KEYWORD NOT RECOGNIZED	String of characters following "ON" in trap statement did not match any of trap types allowed. Statement deleted.	Alter source code and recompile.
217	E	ENTRY STRUCTURE MISMATCH	ENTRY statement name used as function in subroutine or vice versa. Rest of statement ignored.	Alter source code and recompile.
218	E	REDUNDANT ENTRY	Previous ENTRY statement has already appeared with name identifier. Rest of statement ignored.	Alter source code and recompile.
219	E	DUMMY USED AS ENTRY	Formal parameter appears as entry name in ENTRY statement. Rest of statement is ignored.	Alter source code and recompile.
220	E	STATEMENT FUNCTION OR INTRINSIC NAME	Name used as entry is statement function or intrinsic. Rest of statement ignored.	Alter source code and recompile.
221	E	ENTRY IN RANGE OF DO	ENTRY statement appears in range of a DO loop. Rest of statement is analyzed by the compiler.	Alter source code and recompile.
222	E	NAME NOT UNIQUE	Name appearing in SYSTEM INTRINSIC statement has been specified with some other structure. Rest of statement is ignored.	Alter source code and recompile.
223	E	NAME NOT ON FILE	Name appearing in SYSTEM INTRINSIC statement cannot be found in the SPLINTR file. Rest of statement is ignored.	Alter source code and recompile.
224	E	INCORRECT DIGIT	INTEGER*2 or INTEGER*4 declaration has a number other than 2 or 4. INTEGER*2 is assumed.	Alter source code and recompile

Table 3-3. FORTRAN Compiler Warning & Error Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
225	E	EXPECTED DIGIT	INTEGER*2 or INTEGER*4 declaration has a non-numeric character following the *. INTEGER*2 is assumed.	Alter source code and recompile.
226	W	REFERENCED VARIABLE NOT DEFINED	Variable listed with the message is uninitialized. Compilation not affected.	Alter source code and recompile.
227	E	PARAMETER IDENTIFIER NOT UNIQUE	Name given to a parameter constant was not unique. Compiler attempted to analyze the rest of the statement.	Alter source code and recompile.
228	E	EXPECTED PARAMETER VALUE	Whatever was found following the equal signs in a parameter definition was not recognized as a valid constant. Compiler attempted to analyze the rest of the statement.	Alter source code and recompile.
229	E	ENTRY IN MAIN PROGRAM	ENTRY statement may only appear in subprogram. The rest of statement is ignored.	Alter source code and recompile.
230	E	ITEM IN DATA REDUNDANTLY INITIALIZED	The same variable is initialized twice through a DATA statement.	Alter source code and recompile.
231	W	COMPILER BRANCH GENERATION ERROR	The compiler has generated bad branch code for a very large or very complex conditional expression. Incorrect operation may result.	Try to break conditional statement into several less complex statements.
232	E	ATTEMPT TO STORE INTO PARAMETER	A symbolic name assigned a value in a PARAMETER statement has been assigned a value otherwise; it may only have value assigned in PARAMETER statement.	Alter source code and recompile.
233	E	COMPILER ERROR	Compiler detected an irrecoverable internal error.	Document error and submit with bug report.

COBOL LANGUAGE MESSAGES

The error messages issued for a COBOL program fall into two categories: the messages issued during compilation of a COBOL source program, and the messages issued when a COBOL object program is executed. The compiler diagnostic messages are described in table 3-4, the status values returned when a COBOL program calls a KSAM procedure are described in table 3-4.1, and the object program diagnostic messages are described in table 3-5.

COBOL COMPILER DIAGNOSTIC MESSAGES

During compilation of a COBOL source program, the compiler diagnoses questionable or erroneous program elements and then reports them on the program listing. In most cases diagnostic messages are listed immediately following the questionable (or erroneous) source line and a position indicator (either a ^ or a ↑) is printed below and to the right of the element in question. One position indicator and one diagnostic message is issued for each questionable (or erroneous) element in a source line.

Format of COBOL Compiler Diagnostic Messages

The format of a COBOL compiler diagnostic message is

$$\left\{ \begin{array}{l} \dots \\ \text{????} \\ \text{!!!!} \\ \text{****} \end{array} \right\} \Delta \left\{ \begin{array}{l} \text{WARNING} \\ \text{ERROR} \end{array} \right\} \Delta \text{message-number} \Delta \text{message-text.} \Delta [\text{SEE sequence number}]$$

where

... equals a warning only code

???? equals a questionable construct code

!!!! equals a serious error code

**** equals a disastrous error code

WARNING is printed following warning or questionable construct codes

ERROR is printed following serious or disastrous error codes

message-number is the number of the message (see table 3-4)

message-text is the actual text of the message (see table 3-4)

SEE sequence-number is a phrase which indicates the line sequence number of the previous diagnostic message if any has been generated.

WARNING ONLY DIAGNOSTIC MESSAGES (...). A warning diagnostic message is given for minor violations of COBOL rules which have no effect upon the interpretation or meaning of the program being compiled (for example, missing spaces), or for compiler difficulties when interpreting a subsystem command (see Appendix B). Warning messages can be suppressed by using the NOWARN parameter in the \$CONTROL subsystem command. The total number of warnings issued (whether or not they have been listed) is given near the end of the program listing.

QUESTIONABLE CONSTRUCT DIAGNOSTIC MESSAGES (????). A questionable construct diagnostic message is given in those cases where the resulting object program will execute, but probably not in the exact way the programmer intended. These diagnostics are counted toward the maximum errors allowed count (as specified by the ERRORS parameter of the \$CONTROL command, described in Appendix B of the COBOL/3000 Reference Manual).

SERIOUS ERROR DIAGNOSTIC MESSAGES (!!!!). A serious error diagnostic message occurs when the grammatic rules of COBOL have been violated, or when the compiler cannot determine the semantics of the program. The program's compilation continues, but to check syntax only; program execution should not be

attempted. These diagnostics are counted toward the maximum errors allowed count and the MAP and CODE parameters of the \$CONTROL command are ignored.

DISASTROUS ERROR DIAGNOSTIC MESSAGES (**).** When a disastrous error diagnostic message occurs, the compiler has found a condition which prevents continuation of the compilation (for example, a file error or memory space overflow). The compiler terminates the compilation; do not attempt program execution.

OBJECT PROGRAM DIAGNOSTIC MESSAGES

During execution of a COBOL object program, the subsystem can produce diagnostic messages. These messages have the form

file-name

*** ERROR *nnn message-text*

where

file-name is the name of the file (appears only for file-related errors)

nnn is the object program diagnostic message number (see table 3-5)

message-text is the actual diagnostic message

Following each file error that occurs during object program execution (messages numbered 520 through 631), MPE issues a file information display. This display can be used to find the exact cause of the file error. Refer to Appendix A of this manual for a discussion of the file information display.

EXAMPLE:

The following short COBOL compiler listing extract gives examples of the form and positioning of the different compiler diagnostic messages.

```
PAGE 0001  HEWLETT-PACKARD 32213A.00.0  COBOL/3000  TUE, AUG 21, 1973,  9:03 AM

000100$CONTROL  ERRORS=3
000200 IDENTIFICATION DIVISION.
000300 PROGRAM-ID. DIAGNOSTIC-EXAMPLES.
                                     ^
.... WARNING 29  IMPROPER PROGRAM NAME.
000400 ENVIRONMENT DIVISION.
000500 DATA DIVISION.
000600 WORKING-STORAGE SECTION.
000800 77  B  PICTURE X(3)  VALUE  "ABCDEF".
                                     ^
.... WARNING 40  NON-NUMERIC VALUE EXCEEDS SIZE OF ITEM.  SEE 000300
000900 77  C  PICTURE 9(6).
001000 PPOCEDURE DIVISION.
001100 P.  OPEN OUTPUT PRINTER.
                                     ^
!!!! ERROR 150   SYNTAX REQUIRES FILE NAME.  SEE 000800
001200      ADD A,B TO C.
                                     ^
???? ERROR 63    UNDEFINED WORD IGNORED.  SEE 001100
                                     ^
.... WARNING 6    MISSING SPACE.  SEE 001200
                                     ^
???? ERROR 100   ILLEGAL ARITHMETIC OPERAND.  SEE 001200
                                     ^
**** ERROR 1     TOO MANY ERRORS.  SEE 001200

CHECKED SYNTAX ONLY.
CPU TIME = 0:00:01.  WALL TIME = 0:00:07.
END COBOL/3000 COMPILATION. 004 ERRORS. 003 WARNINGS.  SEE 001200
```

Table 3-4. COBOL Compiler Diagnostic Messages

NO.	TYPE	MESSAGE	MEANING	ACTION
001	*	TOO MANY ERRORS	In order to save computer time, the user may specify that the compilation is to terminate after a number of serious and questionable errors are found. This number is set using a compiler subsystem command. The compilation terminates.	Correct the errors and/or change the maximum error count with a subsystem command. (Re-compiling without correcting known errors wastes computer time.)
002	?	ILLEGAL CHARACTER IGNORED	The indicated character is either an illegal ASCII character or is not a valid COBOL character in this context. The character is ignored.	Check the punchcard code.
003	.	FIELD A MUST BE BLANK	Field A (columns 8 - 11) must be blank in a continuation record. However, the Field is included in the record.	Observe proper source record format.
004	.	TOO MANY CHARACTERS	The indicated word, number, string, or non-numeric literal contains or specifies too many characters in the given context. In a COBOL source record, the item is truncated. In a compiler subsystem command, the parameter is ignored.	Correct and/or shorten the indicated item.
005	.	SHOULD BE HYPHEN OR ASTERISK	Column 7 contains a character other than a blank or one of the following: - indicates a continuation line. * indicates a comment line. \$ indicates a compiler subsystem command.	Check the source record for proper format.
006	.	MISSING SPACE	The line is treated as a comment. COBOL standards require a space in certain contexts, but the compiler is able to interpret the meaning correctly. No action is taken.	Insert a space.
007	.	ILLEGAL COMMAND	The subsystem command name was not recognized; the entire command is ignored.	Review the subsystem commands available in COBOL.
008	?	IMPROPER NUMERIC LITERAL	The indicated numeric literal was not formed properly; for example, it contains two decimal points or an alphabetic character.	Review the rules for forming numeric literals; correct the literal.
009	.	MISSING QUOTATION MARK	Terminal quotation mark is missing from a non-numeric literal or string constant in a subsystem command. May be caused by missing continuation record. Compiler assumes a quote.	Supply quotation mark or continuation record.
010	*	STATE-STACK OVERFLOW	The complexity of the indicated statement caused an internal compiler table to overflow, even though the statement may not contain any other specific error. Compilation terminates.	Break the statement into a series of shorter, simpler COBOL statements.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
011	!	GRAMMATICAL ERROR ! EXPECTING ONE OF THE SYMBOLS BELOW	The indicated item appears in some context that the compiler cannot recognize. On the line following this message, the compiler lists the items expected at this point in the program. The compiler attempts to recover from this error (see message 67).	Review statement format and correct. Also, notice that this statement may be correct, but cannot logically follow the preceding statement.
012	*	UNEXPECTED DIVISION END	Division or program ended unexpectedly. This is frequently the result of a previous grammatical error. The compilation terminates.	Correct grammatical errors.
013	*	SPACE OVERFLOW	The compiler has used all the space available to it under MPE. The compilation terminates.	Either subdivide the program using the Interprogram Communication feature, or change the maximum allowable data segment size in MPE.
014	?	IMPROPER USE OF RESERVED SYMBOL	A reserved word or character has been used in the wrong context. (For example, a reserved word has been used as a data-name or a paragraph-name.) The compiler ignores the symbol.	Check the list of reserved words and then use a word or symbol that is not reserved.
015	?	IMPROPER LEVEL NUMBER	Level number is not in the range 01 to 49, 66, 77, or 88. Compiler assumes a likely number.	Use a proper level number.
016	.	NON-STANDARD LEVEL NUMBER	Assume that a data hierarchy has been established using level numbers 01, 02, and 04 when the compiler finds an 03 level number. The 03 level item represents a non-standard level number. The compiler treats the entry as though it were coded as an 02 level entry.	Change the level number to conform to the rules for level numbers. Also, check to be certain that subsequent data entries still reflect the desired data structure after the non-standard level number has been changed.
017	.	CLAUSE DUPLICATION	The same clause appears two or more times in the same entry. For example, a data description contains a USAGE COMP and a USAGE DISPLAY clause. The compiler uses the last-entered clause.	Eliminate redundant clauses. (This warning may be ignored if the program runs properly.)
018	?	IMPROPER INTEGER	The compiler has encountered an integer outside the range 0 to 32,767. The compiler assumes a number within the legal range.	Assign an integer within the legal range.
019	?	REDEFINED DATA-NAME NOT DEFINED	The item being redefined is either missing or was dropped from the program because of some other error. The compiler ignores the REDEFINES clause.	Be certain that the redefined item is correctly defined and then recompile.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
020	?	ILLEGAL PICTURE	Typical causes of this message are: • illegal character picture string. • illegal combination of picture string.characters. • more than 18 digits specified for numeric data. The recompiler replaces illegal picture strings as though they were coded PIC 9 (1).	If the cause of the error is not obvious, read the section of the COBOL manual which deals with the PICTURE clause character-string. Correct the error and recompile.
021	?	REFERENCE NOT UNIQUE	The indicated reference is not uniquely qualified. The compiler uses one of available possibilities.	Make the reference unique either by adding sufficient qualification or by spelling it differently. If the reference is a data-name manipulated by the CORRESPONDING option, it must be qualified.
022	!	SECTION MISPLACED	FILE SECTION, WORKING-STORAGE SECTION, and LINKAGE SECTION must appear in that order when used.	Correct the sequence of the sections.
023	?	LEVEL NUMBER IN REDEFINE CLAUSE IS 66 OR 88.	The compiler ignores this entry.	Correct the error and recompile.
024	?	REDEFINING A DIFFERENT LEVEL	The compiler ignores the REDEFINES entry.	Correct the level number of the REDEFINES entry and recompile.
025	.	REDEFINING A TABLE	The REDEFINES clause may not refer to an item defined with the OCCURS clause; however, this compiler allows redefinition of a table.	Ignore the warning diagnostic or correct the error by defining the item first and then redefining it with the table description.
026	.	REDEFINING AN ITEM SUBORDINATED TO A TABLE	The COBOL language specifies that the REDEFINES clause may not refer to an item subordinated to a table; however, this compiler allows such a redefinition.	Ignore the warning diagnostic or correct the error by defining the item first and then redefining it with the table description.
027	?	REDEFINES CLAUSE CONTAINS A VALUE CLAUSE	The values specified for the REDEFINES clause are compiled into the program. If the item being redefined also specified values, the original values are replaced.	Values should be associated with the original item rather than the REDEFINES clause.
028	!	REPORT WRITER MODULE NOT IMPLEMENTED	Although the REPORT WRITER module is not implemented, this compiler checks the syntax of REPORT WRITER statements so that the compiler can be more useful for educational purposes.	No object code is generated for REPORT WRITER statements; rewrite this portion of the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
029	.	IMPROPER PROGRAM NAME	If a program-name is greater than 15 characters, it is truncated and this warning is generated. The truncated name is assigned to the program. If the program name does not begin with an alphabetic character, the default name PROGRAM'ID is assigned, and this warning is generated.	Correct the program-name.
030	?	MNEMONIC NAME MUST BE UNIQUE	A mnemonic assigned in the SPECIAL-NAME paragraph is defined elsewhere in the program. The compiler ignores this clause.	Assign a different, unique mnemonic name.
031	?	OCCURS CLAUSE CANNOT BE SPECIFIED ON AN 01 OR 77 LEVEL	The compiler accepts the level number as coded, but ignores the OCCURS clause.	For an 01 level entry: Add a dummy 01 level entry and change the level number of the OCCURS item to 02. For a 77 level entry: The OCCURS clause cannot be used at this level; recode the entry.
032	?	MULTIPLE REEL/UNIT NOT IMPLEMENTED	The compiler treats this clause as a comment.	Because MPE does not currently support multiple reel/unit files, the program must be rewritten.
033	?	RERUN OPTION NOT IMPLEMENTED	The compiler treats this option as a comment.	Because MPE does not currently support RERUN, the program must be rewritten.
034	.	FILE-LIMIT(S) CLAUSE NOT IMPLEMENTED	The compiler treats this clause as documentation.	Eliminate the FILE-LIMITS clause to suppress this warning message. (The program will operate in any case.)
035	?	SAME RECORD/SORT AREA FILE-NAME UNDEFINED	The compiler ignores the SAME clause.	Correct the error and recompile.
036	.	FILE-NAME APPEARS IN MORE THAN 1 SAME/RECORD/SORT AREA		Correct the error and recompile.
037	.	FILE-NAME NOT IN SAME RECORD/SORT AREA CLAUSE	This message is issued under the following conditions: • A sort-file cannot be named in the SAME AREA clause unless the RECORD option is used. • All files named in the SAME AREA clause must also appear in the SAME RECORD AREA clause. • All the files named in the SAME AREA clause must also appear in the SAME SORT AREA clause.	Correct the error and recompile.



Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
038	?	FORMAL FILE DESIGNATOR MORE THAN 8 CHARACTERS	The formal file designator — the name by which the file is known to MPE — can be no more than 8 characters in length. The compiler truncates longer names to 8 characters. Notice that the formal file designator refers only to the name assigned as part of the system-file-name in the ASSIGN clause; the system-file-name itself may be longer than 8 characters.	Change the name to be 8 characters or less in length. (Or use the truncated name assigned by the compiler.)
039	?	FILE SIZE MORE THAN 9 DIGITS	The file size entry in the system-file-name may not exceed 9 digits. The compiler assigns a default value of 10,000.	Correct this problem in either of two ways: Either correct the source program and recompile, or use an MPE :FILE command to specify the desired file size when the program is run.
040	.	NON-NUMERIC VALUE EXCEEDS SIZE OF ITEM	The non-numeric string is truncated from left or right, depending on whether or not the JUSTIFIED clause is specified.	Correct the error and recompile the program.
041	?	CLASS NOT DA, UT, OR UR	The class field in the system-file-name of the ASSIGN clause is incorrect. The compiler ignores the rest of the ASSIGN clause.	Correct the system-file-name and recompile.
042	?	RECORDING MODE NOT A OR B	The recording mode field in the system-file-name of the ASSIGN clause is neither A nor B. The compiler assumes B (binary).	If recording mode B is acceptable, no action need be taken. If B is not acceptable, correct the system-file-name and recompile the program.
043	?	OCCURS SUBJECT MUST BE THE ONLY KEY	The compiler assumes the object of the OCCURS clause to be the only key and ignores all other items names in the KEY clause.	Correct the error and recompile the program.
044	?	FILE-NAME APPEARED IN MORE THAN 1 SELECT CLAUSE	The compiler assumes that the last SELECT statement is correct and compiles it into the program.	Either correct the error and recompile or use an MPE :FILE command when the program is run.
045	.	EMPTY PICTURE STRING	Either no PICTURE clause is given, or the PICTURE clause character-string is missing (possibly because of a grammatical error). The compiler assumes that this item is a group item. Notice that this assumption may cause a level number error on subsequent entries.	Correct the error and recompile the program.
046	?	A SAME-AREA FILE NOT APPEARED IN SAME-SORT AREA CLAUSE		Correct the error and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
047	?	DATA RECORD NOT 01-LEVEL	Data record definitions for a file must begin at the 01 level. The compiler changes the level number of this entry to 01 and attempts to continue the compilation. Notice that this assumption may cause a level number error on subsequent entries.	Correct the error by supplying the missing 01 level entry and re-compiling the program.
048	?	88-LEVEL WITHOUT VALUE CLAUSE	The item is discarded.	Correct the error and recompile the program.
049	?	INTEGER-1 MUST BE < INTEGER-2 IN OCCURS CLAUSE	The compiler sets integer-2 to the value of integer-1.	Correct the error and recompile the program.
050	?	INTEGER-2 IN OCCURS CLAUSE MUST BE > 0	A negative literal is given for integer-2. The compiler assumes that a value of 0 is given. Notice that this assumption may cause message 049.	Correct the error and recompile the program.
051	!	TABLE EXCEEDS THREE DIMENSIONS	The COBOL language supports tables containing no more than three levels of OCCURS clauses. This compiler uses only the first three levels defined and ignores the remainder.	Rewrite the program using no more than three levels of OCCURS clauses.
052	.	EMPTY GROUP	An empty item is a group item which contains no elementary item definitions. For example, if two consecutive statements are both 01 level items without a PICTURE clause, the first 01 is an empty group. Such items cannot be manipulated within the program since the compiler has no way to calculate a length for the item.	Correct the error and recompile the program.
053	!	SIZE OF DATA SEGMENT GREATER THAN 65K BYTES	The HP 3000 cannot handle data segments longer than 65K bytes. When this occurs, the compiler continues to check the source program syntax, but generates no object code.	The program must be rewritten. Handling extremely large records can often be simplified using the Interprogram Communication feature with a \$CONTROL DYNAMIC parameter.
054	?	OCCURS. . . DEPENDING ON WITHIN RANGE OF ANOTHER OCCURS		Correct the error and recompile the program.
055	!	FILE-NAME NOT APPEARED IN A SELECT CLAUSE	The compiler attempts to use the file-name as a formal file designator. However, this does not provide sufficient information for a successful compilation.	Correct the error and recompile the program.
057	?	LABEL RECORD NON 01-LEVEL	The data-name in the LABEL RECORD IS clause has a level number other than 01. Although the compiler attempts to use the data-name as coded, this may cause other errors.	Correct the error and recompile the program.
058	?	LABEL RECORD SIZE NOT 80 CHARACTERS	The compiler assumes a record size of 80 characters for the label.	Change the label record size to 80 characters and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
059	.	SYSTEM-FILE-NAME BEYOND THE 1ST TREATED AS COMMENT	Only the first system-file-name in a SELECT statement has meaning to the compiler.	To suppress the warning, correct the error and recompile the program. To alter file characteristics at object time, use MPE :FILE commands.
060	?	USAGE CONFLICT BETWEEN GROUP AND ITS ELEMENTARY ITEMS	The compiler assigns the USAGE of the group to each of its elementary items.	Correct the error(s) and recompile the program.
061	?	IMPROPER USE OF SYNC/JUST/PIC/VALUE/BLANK WHEN 0 CLAUSES	Common causes for this message are: • BLANK WHEN ZERO cannot appear with 88 level items. • None of these clauses may appear with an index-data-item. • VALUE, JUST, SYNC, or USAGE may not be subordinate to a group item assigned a value.	Correct the error and recompile the program.
062	?	ILLEGAL CURRENCY SIGN	The selected symbol cannot be used as a currency sign. The compiler assumes \$.	Select another character and recompile the program.
063	?	UNDEFINED WORD IGNORED	The indicated data-name was not defined in the Data Division. The word may be undefined, dropped because of a previous error, or simply misspelled. The compiler ignores the undefined word.	Correct the error and recompile the program.
064	?	LEVEL-77 MUST BE ELEMENTARY ITEM	The compiler assumes that the indicated item is a group with no elementary items.	Correct the entry by giving it a legitimate PICTURE character-string and recompile the program.
065	?	MISSING PROGRAM-ID PARAGRAPH	COBOL standards require a PROGRAM-ID paragraph. However, this compiler will assume a program name PROGRAM' ID if the paragraph is missing. (See message 029.)	Supply a valid PROGRAM-ID paragraph and recompile the program.
066	!	FILE-NAME MUST BE UNIQUE	The compiler cannot generate a useful object program if this message appears. However, the compiler will accept the duplicate file-name and continue to check the source program syntax.	Supply a valid file-name and recompile the program.
067	.	ATTEMPTING SYNTAX RECOVERY FROM PRECEDING SYMBOL	This message is normally paired with message 011. Notice the positions of the arrows associated with this message and message 011. Because of grammatical errors, the compiler ignores all source text between the two arrows.	Correct the previous error to eliminate both this message and message 011.
068	.	NESTED COPY STATEMENT IGNORED	A COPY statement was encountered in a source record from the copyfile. The compiler ignores the COPY statement.	Remove the COPY statement from the copyfile. Any uncopied statements must be added to the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
069	?	REFERENCE INCOMPLETE		Correct the error and recompile the program.
070	?	NAME MUST NOT QUALIFY ITSELF	A word has been used twice in the qualification of a data-name. The compiler will attempt to find the correct reference.	Correct the qualification of the data-name and recompile the program.
071	!	REDEFINING ITEM SIZE MUST BE <= REDEFINED ITEM SIZE	An item whose description includes a REDEFINES clause has a total length which is greater than the item being redefined. This makes an accurate location count impossible.	Correct the error by defining the longer item first and recompile the program.
072	.	SEQUENCE ERROR ON TEXTFILE	The sequence numbers (cols 1 - 6) in the textfile are not in ascending order.	Correct the sequence numbers in the textfile.
073	.	SEQUENCE ERROR ON MASTFILE	The sequence numbers (cols 1 - 6) in the master file are not in sequence.	Correct the sequence numbers in the master file.
074	.	SEQUENCE ERROR ON NEWFILE	The sequence number of the next record to be written to the NEWFILE is not greater than the previous non-blank sequence number for NEWFILE.	Correct the record sequence.
075	.	COMMAND CONTINUATION NOT FOUND	The record following a continued subsystem command did not contain a \$ in column 7. The subsystem command is not continued.	Supply the missing command continuation.
076	.	IMPROPER COMMAND PARAMETER	An error was found in a subsystem command parameter. The faulty parameter is ignored.	Correct the subsystem command.
077	?	INDEX NAME MUST BE UNIQUE	The compiler has found a duplicate index-name. The compiler ignores <i>all</i> the index-names associated with this OCCURS clause.	Change the duplicate index-name and recompile.
078	?	TABLE HAS MORE THAN 12 INDEX NAMES	A table is limited to no more than 12 index-names. The compiler ignores all but the first 12 indexes.	If the current version of the program does not use the excess indexes, the program should execute. Otherwise, delete the extra indexes and recompile.
079	!	THE FOLLOWING SORT/ SEARCH KEY IS UNDEFINED	Following this message, the compiler will list the missing key. The SEARCH or SORT associated with the key cannot be generated.	Define the missing key(s) and recompile the program.
080	!	THE FOLLOWING ACTUAL KEY IS UNDEFINED	Following this message, the compiler will list the missing key. File access statements associated with the key cannot be generated.	Define the missing key(s) and recompile the program.
081	!	THE FOLLOWING DEPENDING-ON DATA-NAME IS UNDEFINED	Following this message, the compiler will list the missing data-name. Table handling statements associated with the data-name cannot be generated.	Define the data-name and recompile the program. Notice that this error may be caused by misspelling the name of a correctly defined item.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
082	?	RENAMING AN ITEM NOT YET DEFINED	The compiler ignores this statement.	Correct the error and recompile the program.
083	?	RENAMING ITEM WITH LEVEL 01, 66, 77, OR 88	COBOL syntax rules do not permit renaming at these levels. The compiler ignores this statement.	Either RENAME at a legal level or delete the RENAMES entry, and then recompile the program.
084	?	RENAMING AN ITEM HAVING A RELATIVE WITH OCCURS CLAUSE	COBOL syntax rules do not permit renaming of items related to an OCCURS clause. (This would cause confusion as to whether the entire table or an element of the table is the renamed item.) The compiler ignores the RENAMES entry.	Delete the RENAMES entry or redefine the table so that the desired data can be accessed with a data-name.
085	.	RENAME CLAUSE NON-66 LEVEL	RENAMES can be specified only at the 66 level. The compiler ignores a RENAMES at any other level.	Change the level number of the RENAMES entry to 66 and recompile the program.
086	?	RENAMED START-POINT >= END-POINT	In a RENAMES . . . THRU clause, either data-name-2 logically follows data-name-3 in the record structure (and should not), or they name the same item. The compiler attempts to assign a reasonable length to the renamed entry, but this is not always possible.	Program execution using the renamed item may not produce the desired result. To ensure the correct result, correct the error and recompile the program.
087	?	CONDITION-NAME WITHOUT VARIABLE	The compiler ignores the 88 level entry.	Give the condition-name a variable.
088	?	EXPECTING NUMERIC LITERAL OR FIGURATIVE ZERO	A conditional variable is defined as a numeric item, but the value assigned to the item at the 88-level is either a non-numeric constant or a figurative constant other than ZERO. For example: 02 TRANCODE PIC 9. 88 NEW-ACCOUNT VALUE "N".	Correct the error and recompile the program.
089	?	EXPECTING NON-NUMERIC LITERAL OR FIGURATIVE CONSTANT	This condition is the opposite of message 088: A conditional variable is defined as an alphabetic item, but the value assigned to the item at the 88-level is numeric.	Correct the error and recompile the program.
090	.	RANGE OF VALUES NOT ALLOWED	The compiler accepts only the first literal.	Correct the error and recompile the program.
091	?	OPTIONAL FILE MUST BE SEQUENTIAL	The OPTIONAL clause may not be used with random access files.	If a random access file is intended, remove the OPTIONAL clause from its description. If an optional sequential file is intended, its description must include the ACCESS IS SEQUENTIAL clause.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
092	?	UNABLE TO LOCATE LIBRARY NAME ON COPYLIB	The COPY statement is ignored.	Add the appropriate source statements to the copy file and re-compile, or add the statements to the source program and recompile after removing the COPY statement.
093	!	ACTUAL KEY REQUIRED IN RANDOM ACCESS	Random files cannot be accessed without an ACTUAL KEY.	Include an ACTUAL KEY IS data-name clause in the file's description and recompile the program.
094	.	ACTUAL KEY NOT ALLOWED IN SEQUENTIAL ACCESS	An ACTUAL KEY is redundant and is not used for a sequential file.	Remove the ACTUAL KEY clause from the file's description and recompile the program.
095	?	NUMERIC LITERAL AND ITS PICTURE DISAGREE	When a numeric literal disagrees with its picture, the compiler aligns the literal according to the rules for Standard Data Positioning and supplies truncation or zero-fill on both the left and right, as needed. For example, PIC 99V99 VALUE 123.456 is compiled as 23.45.	Correct the error and recompile the program.
096	?	ILLEGAL CHAR. IN NUMERIC LITERAL	When a numeric literal contains an illegal character, the compiler accepts the literal up to but not including, the illegal character. Thus, the literal 123G43 is compiled as 123.	Correct the error and recompile the program.
097	.	COMMENT MUST BE CONTAINED ON ONE LINE OF THE COMMAND	Subsystem command is discarded.	Correct the error and recompile the program.
098	?	JUSTIFIED CLAUSE IN NUMERIC OR NUMERIC-EDITED ITEM	Numeric and edited-numeric items are always aligned by decimal point. Thus the JUSTIFIED clause cannot be used with these items. The compiler ignores the clause.	Correct the error and recompile the program.
099	?	ILLEGAL FORMAL FILE DESIGNATOR	The first character of a formal file designator must be a \$ or an alphabetic character. Subsequent characters must be a slash (/), period (.), an alphabetic character, or a digit.	Correct the error and recompile the program.
100	?	ILLEGAL ARITHMETIC OPERAND	An operand in an arithmetic statement cannot be used (for example, it might be an alphabetic item). The compiler replaces the illegal operand with the TALLY register except when the statement includes the CORRESPONDING option. In this case, the compiler ignores the arithmetic statement.	Correct the illegal operand and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
101	?	ILLEGAL ARITHMETIC REPLACEMENT IDENTIFIER	The identifier designated to store the results of an arithmetic operation is illegal. The compiler replaces the identifier with the TALLY register.	Change the identifier and recompile the program.
102	?	COMPOSITE OF OPERANDS > 18 DIGITS	The composite of operands must not contain more than 18 digits. This composite is the data item resulting from superimposition of all operands (except the identifier following the word GIVING in the ADD or SUBTRACT statement), aligned on their decimal points.	Correct the error and recompile the program.
103	?	ILLEGAL PROCEDURE-NAME	Common causes of illegal procedure-names are: • Name is also a data-name. • Name is incorrectly qualified as when a paragraph-name instead of a selection-name is used. • A numeric name is not an integer. When the illegal name is coded as a paragraph-name, the compiler ignores it; when the illegal name appears as a reference, the compiler assigns the dummy name ILL'BRANCH, which will cause the program to abort if executed.	Correct the name and recompile the program.
104	?	DEFINITION INCONSISTENT WITH REFERENCE	The indicated name was defined as a section-name, but was referenced as a paragraph-name. The compiler ignores the name.	Correct the error and recompile the program.
105	?	DUPLICATE PROCEDURE NAMES	The indicated procedure-name is multiply defined and is not adequately qualified. The compiler ignores the procedure-name.	Correct the error and recompile the program. Be certain that no paragraph-name is the same as a section-name.
106	?	SECTION ILLEGAL IN PROGRAM	The compiler has encountered a section-name within the Procedure Division of a program when the Procedure Division did not begin with a section-name. The section is treated as a paragraph.	If the Procedure Division is to contain a paragraph, then the entire division must be in sections. Correct the error by changing the erroneous section-name to a paragraph-name or by adding a section-name at the beginning of the Procedure Division.
107	?	ILLEGAL PRIORITY NUMBER	Either the priority number appears in the Declaratives Section, or it is greater than 99. The compiler sets the priority number to 0.	Change or remove the illegal priority number.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
108	?	ILLEGAL PROGRAM CONSTRUCT	This message indicates an illegal section/paragraph construction or an illegal Declaratives/paragraph construction. Either the previous section was empty or contained no paragraphs. Or, the paragraph either begins or ends the Declaratives Section in such a way that its relationship to a USE statement is not clear. The compiler includes these statements in the program, but this may cause errors if the program is executed.	Correct the illegal construct and recompile the program.
109	?	ILLEGAL STATEMENT FORM	A GO TO statement without an operand appeared as other than the first statement in a paragraph, thus making the GO TO unavailable for use by an ALTER statement. The compiler substitutes the statement GO TO ILL'BRANCH, which will cause the program to abort if executed.	Make the GO TO statement the first in the paragraph, or remove it from the program. (Notice that removing the statement will probably require the removal of any ALTER statements that refer to it.)
110	?	SECTION IS ILLEGAL REFERENCE	An ALTER statement refers to a section-name rather than a paragraph-name. The compiler ignores the ALTER statement.	Correct the ALTER statement so that it refers to a GO TO statement which immediately follows a paragraph-name. Recompile the program.
111	?	TABLE-REFERENCE MUST BE INDEXED OR SUBSCRIPTED		Correct the error and recompile the program.
112	!	NUMBER OF PARAMETERS > 60	The number of identifiers in an ENTRY or CALL statement or in the USING option of the Procedure Division heading is greater than the maximum of 60. The compiler ignores identifiers after the 60th.	Decrease the number of identifiers and recompile the program.
113	!	FORMAL PARAMETER NOT IN LINKAGE SECTION	An identifier named in an ENTRY statement or in the USING option of the Procedure Division heading does not appear in the Linkage Section. The compiler ignores the identifier.	Add the identifier to the Linkage Section and recompile the program.
114	!	ILLEGAL PARAMETER	An identifier named in an ENTRY statement or in the USING option of the Procedure Division heading is illegal. Such identifiers must have level number 01 or 77, and may not be subscripted or refer to special registers such as TALLY.	Correct the error and recompile the program.
115		(This message number not used)		
116	?	ENTRY NOT ALLOWED IN DECLARATIVES PORTION	An ENTRY statement has been found in the Declaratives Section of the program. The compiler ignores the ENTRY statement.	Remove the ENTRY statement and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
117	?	ALTER DOES NOT REFERENCE ALTERABLE GO TO	The first statement of a paragraph named in an ALTER statement is not a GO TO. The compiler ignores the ALTER statement.	Either make the GO TO statement the first in the paragraph, or remove the ALTER statement. Recompile the program.
118	?	PARAMETER MUST START AT WORD BOUNDARY	All parameters named in a subprogram CALL must begin on a word boundary. (A word is two bytes — 16 bits — in length.) The compiler changes this reference to point to the word containing the desired item. This has the effect of adding one byte at the left of the desired item.	Either reposition the desired item so that it falls on a word boundary (remember to count slack bytes), or set up an 01 or 77 level field for the item in Working-Storage. (01 and 77 level items are always allocated starting on a word boundary.)
119	!	UNDEFINED LOCAL PARAGRAPHS	Following this message, the compiler lists any undefined local paragraphs in the previous section.	Define the listed paragraphs and recompile the program.
120	!	DEPENDING-ON IDENTIFIER IS NOT INTEGER	The compiler generates no code for the GO TO DEPENDING ON statement.	Change the identifier and recompile the program.
121	?	EXIT STATEMENT MUST BE ONLY ONE IN PARAGRAPH	COBOL syntax requires that the EXIT statement be the only statement in a paragraph. However, this compiler processes the statement normally.	Correct the error and recompile the program. (Notice that if this error is left in the program any code between the EXIT and the next paragraph-name is inaccessible when the preceding paragraph is performed.)
122	?	ILLEGAL IDENTIFIER IN CORRESPONDING	The compiler ignores the statement.	Check the rules for corresponding data items, then correct the error and recompile the program.
123	?	NO PAIRS FOUND IN CORRESPONDING	Since no corresponding items were found, no code is generated for the statement.	Check the rules for corresponding data-items, then correct the error and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
124	?	ILLEGAL CLASS-CONDITION IDENTIFIER	Identifiers named in a class-condition must be DISPLAY items. If the identifier has any other usage, the compiler ignores the statement. When the IF NUMERIC statement is applied to an alphabetic field or if the IF ALPHABETIC statement is applied to a numeric field, the compiler generates the test indicated in the IF statement. Under certain conditions this may cause false results since certain packed or binary numbers may have bit configurations that happen to be identical to alphabetic characters.	Change the test if necessary.
125	?	ILLEGAL ABBREVIATED RELATION CONDITION	Abbreviated conditions cannot combine class conditions, sign conditions, and condition-name conditions. The compiler-generated code for the indicated condition will probably yield false result.	Complete the abbreviated condition to remove any ambiguity and recompile the program.
126	?	ILLEGAL RELATION CONDITION	Certain conditions and logical operators cannot be combined. These are indicated in the chart in the introduction to the Procedure Division in this manual. The compiler-generated code for these illegal conditions will probably yield false results.	Correct the illegal condition and recompile the program.
127	?	SHAKY RELATION CONDITION	The indicated condition compares a non-numeric item with a Computational or Computational-3 item. The compiler generates a non-numeric comparison. This may cause false results since certain packed or binary numbers may have bit configurations that happen to be identical to alphanumeric characters.	Some programmers use this type of condition to avoid the need for defining binary or Computational-3 constants. Because this technique defeats the self-documenting feature of COBOL, the condition should be changed in most cases.
128	?	ILLEGAL IDENTIFIER IN EXAMINE	The EXAMINE identifier is either undefined or TALLY. The compiler ignores this EXAMINE statement.	Change the identifier and recompile the program.
129	?	ILLEGAL LITERAL IN EXAMINE	The literal is illegal under the following conditions: • literal is not a single character. • category of literal is inconsistent with EXAMINE identifier. • non-numeric literal used with ALL figurative constant. The compiler ignores this EXAMINE statement.	Change the literal and recompile the program.
130	?	TOO MANY LEVELS IN PERFORM-VARYING	More than three levels appear in the PERFORM VARYING statement. The compiler ignores the additional levels.	Remove the excess levels and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
131	?	NUMBER OF TIMES MUST BE POSITIVE INTEGER	The literal in a PERFORM . . . TIMES statement is less than or equal to zero, or the identifier does not specify an integer. The compiler ignores the PERFORM.	Change the literal or identifier in the PERFORM statement and recompile the program.
132	.	RECORDING MODE NOT IMPLEMENTED	The RECORDING MODE clause is treated as a comment by the compiler.	Use the \$CONTROL NOWARN subsystem command to turn off the warning message output, if so desired.
133	?	SUBPROGRAMS MUST NOT BE SEGMENTED	More than one priority number occurred in a subprogram. This indicates segmentation which is illegal in subprograms. The compiler assigns the first priority number to the entire subprogram.	Make the priority numbers the same.
134	?	SUBPROGRAM MUST NOT BE COMPILED AS MAIN	The source program being compiled contains a Linkage Section and a USING option in either its Procedure Division heading or an ENTRY statement, but it is being compiled as a main program (it lacks a \$CONTROL SUBPROGRAM control command). The compiler assumes that the subprogram mode is desired.	If the program is to be a main program, remove the Linkage Section statements and the USING option, then recompile. If the program is to be a subprogram and there are no other errors, no other action is needed. Recompile the program as a subprogram to suppress this message.
135	?	STATEMENT NOT ALLOWED IN MAIN PROGRAM	An ENTRY statement appears in a program compiled as a main program. The compiler ignores the ENTRY statement.	Either remove the ENTRY statement or recompile as a subprogram.
136	.	MISSING COMPUTER PARAGRAPHS	COBOL standards require that the SOURCE COMPUTER and OBJECT COMPUTER paragraphs be present. This compiler assumes that both paragraphs specify the HP 3000.	Supply the missing paragraphs to suppress this message and to maintain compatibility with the COBOL language.
137	.	77 ITEM PRECEDED BY 01-49 ITEM OR 77 IN FILE SECTION	Level 77 items should be grouped at the beginning of the Working-Storage Section. The compiler assumes an 01 level for the item.	Correct the error and recompile the program if the 01 level number causes incorrect results.
138	?	ILLEGAL USAGE ASSOCIATED WITH GROUP HAVING VALUE CLAUSE	A condition-name cannot be associated with a group containing items whose descriptions include JUSTIFIED or USAGE other than DISPLAY. The compiler treats the group as though there were no USAGE or JUSTIFIED clause.	Correct the error and recompile the program.
139	?	LITERAL-1 AND LITERAL-2 ARE OF DIFFERENT DATA TYPES	In an 88 level condition-name using the THRU option, both literal-1 and literal-2 must be either numeric or alphabetic. The compiler ignores the THRU option.	Correct the error and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
140	?	LITERAL-1 MUST BE < LITERAL-2	In an 88 level condition-name using the THRU option, literal-1 must be lower in the collating sequence than literal-2. Thus the construction "5 THRU 1" must be changed to "1 THRU 5". The compiler ignores the THRU option.	Correct the error and recompile the program.
141	?	EXPECTING A NUMERIC LITERAL	A numeric data item has been assigned a non-numeric literal value (PIC 99 VALUE "AB"). The compiler assigns a value of zero to the item.	Correct the error and recompile the program.
142	?	EXPECTING FIGURATIVE CONSTANT ZERO	A numeric data item has been assigned a figurative constant other than zero. The compiler assigns a value of zero to the item.	Correct the error and recompile the program.
143	.	NUMERIC LITERAL SPECIFIED FOR AN ALPHANUMERIC ITEM	When a numeric literal is specified for an alphanumeric item (PIC X), the compiler builds the literal as ASCII characters and considers it to be non-numeric. This construction is a syntactical error since alphanumeric literals should be enclosed in quotation marks.	Correct the error and recompile the program if this error affects the operation of the program.
144	?	EXPECTING A FIGURATIVE CONSTANT OR NON-NUMERIC LITERAL	A value specified for a group item must be either a figurative constant or a non-numeric literal. The compiler ignores the literal.	Correct the error and recompile the program.
145	?	01-LEVEL DATA NAME NOT UNIQUE IN WORKING-STORAGE SECTION	All data references must be unique. The compiler accepts the duplicate name, but all Procedure Division references to the duplicate names will reference the one defined last in the Data Division.	Correct the error and recompile the program.
146	?	ITEM MUST BE NUMERIC/ NUMERIC EDITED ON BLANK WHEN ZERO	The compiler ignores the BLANK WHEN ZERO clause.	Correct the error and recompile the program.
147	?	RENAME CLAUSE MUST BE THE LAST IN A LOGICAL RECORD	A level 66-entry is followed by a level number other than 01, 77, or 66. The compiler changes the level number to 01.	Correct the error and recompile the program.
148	.	AN 88-LEVEL MUST NOT FOL- LOW AN INDEX DATA ITEM	The compiler ignores the 88-level item.	Correct the error and recompile the program if this error affects the operation of the program.
149	.	AN 88-LEVEL MUST NOT FOL- LOW A 66-LEVEL	The compiler ignores the 88-level item.	Correct the error and recompile the program if this error affects the operation of the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
150	!	SYNTAX REQUIRES FILE NAME	The indicated statement requires a file name. If a file name was given, it may be invalid for one of the following reasons: • the name is misspelled. • There is no SELECT statement for the file name. • There is no FD statement for the file name. The compiler is unable to generate any object code for the statement.	Correct the error and recompile the program.
151	!	CANNOT CLOSE A SORT FILE	The opening and closing of sort files are internal functions. The compiler stops generating object code with this statement.	Correct the error and recompile the program.
152	.	REEL, UNIT, AND LOCK OPTIONS ALL TREATED AS COMMENT	The compiler ignores these options.	The indicated options can be removed to suppress this message, if desired.
153	.	INPUT, OUTPUT, OR I-O CAN BE SPECIFIED ONLY ONCE	The word INPUT (or OUTPUT, or I-O) can appear only once in an OPEN statement.	Correct the syntax by using more than one OPEN statement.
154	!	CANNOT OPEN A SORT FILE	The opening and closing of sort files are internal functions. The compiler stops generating object code with this statement.	Correct the error and recompile the program.
155	.	WITH NO REWIND NOT IMPLEMENTED	The compiler ignores this option.	The REWIND option can be removed to suppress this message, if desired.
156	.	REVERSED NOT IMPLEMENTED	The compiler ignores this option.	The REWIND option can be removed to suppress this message, if desired.
157	!	SYNTAX REQUIRES A RECORD NAME	WRITE and RETURN statements require a record name; file names are not acceptable in these statements. The compiler stops generating object code with this statement.	Correct the statement by supplying an appropriate record name and recompile the program.
158	!	MNEMONIC NAME ERROR	Only the following mnemonic names are permitted in the Special Names paragraph: SYSIN, SYSOUT, CONSOLE, TOP, and NO SPACE CONTROL. The compiler stops generating object code with this statement.	Correct the error in the Special Names paragraph and recompile the program.
159	.	ENDING OPTION NOT IMPLEMENTED	The compiler ignores the ENDING option.	The ENDING option can be removed to suppress this message, if desired.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
160	!	USE PROCEDURE CANNOT SPECIFY FOR SORT FILE	The COBOL language does not permit the use of declarative procedures for sort files. The compiler stops generating object code with this statement.	Remove the sort file name from the USE statement and recompile the program.
161	!	MULTIPLE DEFINED PROCEDURE FOR SAME FILE	The same file name may appear in more than one USE statement. However, the indicated file name appears in USE statements that would call for the execution of two different procedures at the same time. The compiler stops generating object code with this statement.	Correct the error and recompile the program.
162	.	BEFORE OPTION NOT IMPLEMENTED	The compiler ignores the BEFORE option in the USE statement.	This option is not currently available under MPE.
163	!	CAN'T USING A SORT-FILE	A sort file may not appear as a USING file in a SORT statement.	Correct the error and recompile the program.
164	!	ILLEGAL INTO-FROM OPTION OR MOVE OPERAND	The operand named as a receiving field for a MOVE, a READ or RETURN . . . INTO, or a WRITE or RELEASE . . . FROM causes an illegal move operation. The compiler stops generating object code with this statement.	Review legal and illegal moves in this manual; (the rules for MOVE also apply to the INTO and FROM options). Correct the error and recompile the program.
165	?	NULL STRING NOT PERMITTED	There must be at least one character in a string (the compiler supplies one character).	Correct the string.
166	!	CAN'T GIVING A SORT FILE	A sort file may not appear as a GIVING file in a SORT statement.	Correct the error and recompile the program.
167	!	SORT CANNOT APPEAR IN DECLARATIVES	The COBOL language does not permit the use of SORT within Declarative procedures. The compiler stops generating object code with this statement.	All SORT procedures must be outside the Declarative portion of of the program. However, the program can set a flag in the Declarative procedures to control a sort located elsewhere in the Procedure Division. The program must be recompiled.
168	!	KEY FIELD MUST BE LOCATED WITHIN LOGICAL RECORD	The sort key named for the file cannot be found within the record to be sorted. The compiler stops generating object code with this statement.	Correct the error and recompile the program.
169	!	FILE NAME MUST BE RANDOM ACCESS FILE	A READ . . . INVALID KEY statement has been found for a sequential file. The compiler stops generating object code with this statement.	Either redefine the file or drop the INVALID KEY option from the READ statement. Recompile the program.
170	!	SYNTAX REQUIRES A SECTION NAME	Input and output procedures for a SORT must reference section names, not paragraph names. The compiler stops generating object code with this statement.	Provide valid section names for input and output procedures. Recompile the program.



Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
171	!	CAN'T READ A SORT FILE	Opening, closing, reading, and writing of sort files are all functions internal to the SORT statement. The compiler stops generating object code with this statement.	Use RETURN and/or RELEASE statements to access sort file records. Recompile the program.
172	!	FILE-NAME MUST BE A SEQUENTIAL ACCESS FILE	The compiler has found a READ statement without the INVALID KEY option for a file whose access mode was defined as random. The compiler stops generating object code with this statement.	Either correct the READ statement or change the access mode for the file to sequential. Recompile the program.
173	!	INVALID-KEY CLAUSE MISSING		Correct the error and recompile the program.
174	.	ACCEPT FROM CONSOLE CAN- NOT EXCEED 31 CHARACTERS	At most, 31 characters may be accepted through the console for each ACCEPT statement.	Change the program and recompile.
175	!	CAN'T WRITE ON A SORT-FILE	Opening, closing, reading, and writing of sort files are all functions internal to the SORT statement. The compiler stops generating object code with this statement.	Use RETURN and/or RELEASE statements to access sort file records. Recompile the program.
176	!	RECORD-NAME AND IDENTIFIER MUSTN'T REFER TO SAME AREA	The compiler has found a READ, WRITE, RELEASE, or RETURN statement with an INTO or FROM option that refers to the same area as the record-name reserved for the file. The compiler stops generating object code with this statement.	Correct the identifier or remove the INTO or FROM option. Recompile the program.
177	!	SYNTAX REQUIRES A SORT-FILE	The compiler has found a RELEASE or RETURN statement for a file that was not defined as a sort-file.	Each sort-file requires an SD statement in the Data Division. If this is not to be a sort-file, remove the RELEASE and/or RETURN statements and replace them with READ or WRITE statements. Recompile the program.
178	!	CAN'T APPEAR IN NON-DECLARATIVE SECTION	The compiler has found a GO TO MORE-LABELS statement in the non-declarative portion of the Procedure Division. This statement is reserved for use in the Declarative portion only. The compiler stops generating object code with this statement.	Remove the GO TO MORE-LABELS statement and recompile the program.
179	.	LEFT TRUNCATION MAY OCCUR	The receiving field is shorter than the sending field. The compiler generates object code that may cause truncation at the left-hand end of the receiving field.	As a general rule, it is a poor programming technique to allow operations that could cause the loss of the most significant digits of an arithmetic field. However, this warning may be ignored for special applications.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
180	!	RECORDS FOR FILE-NAME-2 OR -3 NOT EQUAL TO -1.	The record length for a GIVING or USING file is not the same as that defined for the sort-file. The compiler stops generating object code with this statement.	The record lengths for USING, GIVING, and sort-files must all be equal. Recompile the program.
181	.	NOT ALL DATA RECORDS HAVE THE SAME SIZE	When the RECORD CONTAINS integer-2 characters clause is specified, all data records in the file must be the same size. The maximum size in the record description is used.	Correct the error and recompile the program.
182	.	RECORD-SIZE < SIZE IN RECORD CONTAINS CLAUSE	The maximum size in the record description is used.	Correct the error and recompile the program.
183	?	RECORD SIZE > SIZE IN RECORD CONTAINS CLAUSE	The maximum size in the record description is used.	Correct the error and recompile the program.
184	.	RECORD-SIZE < MINIMUM SIZE IN RECORD CONTAINS CLAUSE	The maximum size in the record description is used.	Correct the error and recompile the program.
185	?	INVALID QUALIFICATION OF A DATA NAME	An undefined identifier or an invalid qualification of a data name is encountered by the compiler.	Correct the error and recompile the program.
186	.	NON-88 LEVEL IN FILE SECTION WITH VALUE CLAUSE	The VALUE clause may not appear in the File Section, except at the 88-level. This compiler accepts the VALUE entry.	Correct the error and recompile the program.
187	?	FORMS MESSAGE MUST BE <= 56 CHARACTERS AND TERMINATED BY A	A maximum of 56 characters, including the terminating period, are allowed in the FORMS MESSAGE parameter of the ASSIGN clause.	Correct the error and recompile the program.
188	.	ARITHMETIC OVERFLOW MAY OCCUR	If each identifier appearing in an arithmetic statement has the maximum value associated with its PICTURE clause, arithmetic overflow will occur.	If overflow occurs, correct the error and recompile the program.
189	!	MOVE OR COMPARE >32K BYTES	A move statement or Condition Clause exceeds the maximum character limit.	Reduce the size of the data items or break them into smaller sizes.
190	.	LOCKING PARAMETER NOT L... IGNORED	A character other than an L is in the place of the locking parameter in the ASSIGN clause. The parameter is ignored.	If locking of this file is desired, change the parameter to an L.
196	?	ACTUAL KEY NOT ON WORD BOUNDARY	Actual keys must be computational items aligned on a word boundary. The compiler aligns the key to a word boundary, thus causing it to be one digit smaller than the user specified.	Redefine the ACTUAL KEY so that it falls on a word boundary. 01- and 77-level items are automatically assigned on word boundaries. Recompile the program.
197	?	ACTUAL KEY NON-COMPUTATIONAL ITEM	The compiler assumed USAGE IS COMPUTATIONAL for the ACTUAL KEY	Correct the error and recompile the program.
198	!	ACTUAL KEY SIZE LESS THAN 4 BYTES	The ACTUAL KEY must be a computational item aligned on a word boundary (SYNCHRONIZED) with a PICTURE of S9(5) through S9(9). Computational items within this range are assigned four bytes by the compiler. The compiler stops generating object code with this statement.	Correct the ACTUAL KEY and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
199	?	ACTUAL KEY SIZE REDUCED TO 4 BYTES	The picture given for the ACTUAL KEY was larger than S9(9). The compiler assumes a picture of S9(9).	Correct the ACTUAL KEY and recompile the program. (Notice that this may alter record lengths when the ACTUAL KEY is a part of the record.)
200	!	USL FILE OVERFLOW	USL file overflow may occur under the following conditions: • A \$CONTROL USLINIT command be missing. • The default size of 1024 records assigned to \$NEWPASS may be too small. • There may not be enough records left in \$OLDPASS. Additional information about the files manipulated by the compiler subsystem may be found in the appendix section of this reference manual.	Check to be certain that the \$CONTROL USLINIT command is not missing. If that command is present, build a larger USL file and recompile.
201 - 211		(These messages are internal compiler errors.)		Submit to HP.
212	!	CODE SEGMENT EXCEEDS 16K	The object code generated by the compiler exceeds the maximum segment size. The paragraph where the overflow occurred is displayed.	Use sections with priority numbers to segment your program.
213 - 225		(These message numbers are not used.)		
226	?	OCCURS . . . DEPENDING ON MUST BE THE LAST ITEM IN A RECORD		Correct error and recompile.
227	.	SIZE OF RECEIVING FIELD > 18 CHARACTERS	A numeric-to-alphanumeric MOVE results in data that is right-justified with zero fill on the left.	Correct error and recompile.
228	.	VALUE LITERAL LARGER THAN ITEM SIZE	The value literal contains more characters than the PICTURE clause specifies.	Correct the error and recompile.
229	?	ILLEGAL INDEXING OF KEY	The compiler has found a SEARCH ALL statement with a compound condition which specifies different indexing or subscripting for the different conditions. Since the SEARCH ALL statement manipulates the index or subscript in a non-sequential manner, the index or subscript settings must be identical in each of the conditions. The compiler assumes that the key references are identical within the SEARCH ALL statement compound conditions.	Correct the conditions and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
230	?	UNDEFINED GOTO...	Following this message, the compiler lists each paragraph-name where a GO TO. statement was found, but that had no related ALTER statement. For each of these GO TO. statements, the compiler generates a branch to an address which will cause the program to abort if executed.	Supply ALTER statements for the paragraphs listed.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
231	!	SEARCH KEY MUST NOT BE A TABLE OR SUBORDINATE TO A TABLE	The compiler is unable to generate code for the illegal key. The compiler stops generating object code with this statement.	Correct the error and recompile the program.
232	.	SAME SORT AREA CLAUSE CONTAINS NO SORT FILE	The compiler treats the clause as a SAME AREA clause.	This message may indicate that a sort file has been improperly defined. Correct the error and recompile if necessary.
233	?	COMP SYNC ITEMS MUST BE ON WORD BOUNDARY		Correct the error and recompile the program.
234	?	REDEFINES OBJECT NOT IMMEDIATELY PRECEDING SUBJECT	The redefinition of an item must immediately follow the original description of the item being redefined. The compiler ignores the illegal redefinition.	Correct the error and recompile the program.
235	!	UNDEFINED PROCEDURE NAMES	Following this message, the compiler lists any procedure-names that are mentioned in GO TO, PERFORM, or ALTER statements, but that do not appear as valid procedure-names within the program. The compiler stops generating object code with this message.	Misspelling a procedure-name is a common cause of this message. Correct the error and recompile the program.
236	.	ILLEGAL LEVEL NUMBER	The compiler has found an elementary item followed by another elementary item which has a higher level number (02, 05, 04, 02, for example). The compiler treats the item as though its level number were the same as the previous legal item (02, 05, 02, 02, in the example above).	This message may be ignored if it does not affect the operation of program. Correct the error and recompile the program to suppress this message.
237	!	NO EXIT EXISTS IN PROGRAM	The program contains no valid STOP RUN, EXIT PROGRAM, or GOBACK statement. The program cannot be executed since the operator would have to manually abort the run.	Notice that EXIT PROGRAM is not a valid statement for terminating a main program. Correct the error by adding a STOP RUN or GOBACK statement to the program and recompile.
238	?	KEYS IN COMPOUND CONDITION ARE INCOMPLETE OR DUPLICATE	The compiler has found a set of illegal compound conditions in a SEARCH ALL statement. Each condition in the SEARCH ALL must name a key item as either subject or object of the condition. The same key may not appear in more than one condition. When multiple keys are named in the KEY clause and a key other than the first is named in a condition, then all preceding keys must also appear in the compound conditions associated with this SEARCH ALL statement. The compiler generates object code for compound conditions up to but not beyond the point where the error was found.	Correct the condition(s) and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
239	?	INVALID KEY IN SEARCH-ALL CONDITION	A condition in a SEARCH ALL statement names a key that does not belong to the table to be searched. The compiler ignores the condition.	Correct the condition and recompile the program.
240	!	CONDITION NAME VALUE MUST CONTAIN SINGLE LITERAL	A condition-name in a SEARCH ALL condition specifies a range of values. When a condition-name condition is used in a SEARCH ALL statement, the condition-name can be associated with only a single literal. The compiler ignores the condition.	Correct the conditional statement and recompile the program.
241	?	TOO MANY CONDITIONS IN SEARCH-ALL (MAXIMUM = 12)	Since each condition in a SEARCH-ALL statement must name a key item and the maximum allowable number of keys is 12, there can be no more than 12 conditions named in the statement. The compiler ignores all conditions after the 12th.	Correct the conditions in the SEARCH ALL statement and recompile the program.
242	?	ILLEGAL CONDITION IN SEARCH-ALL STMT	A key item must appear as either the subject or object of each condition in a SEARCH ALL statement, but not both. The compiler ignores the illegal condition.	Correct the condition and recompile the program.
243	.	NON.88-LEVEL IN LINKAGE SECTION WITH VALUE CLAUSE	The VALUE clause may not appear in the Linkage Section except at the 88-level. The compiler ignores the VALUE entry.	Correct the error and recompile the program.
244	!	DEPENDING-ON ITEM MUST BE AN INTEGER	The item named in this DEPENDING ON clause is defined with digits to the right of the decimal point. DEPENDING ON items must not have decimal positions. The compiler stops generating object code with this statement.	Correct the error and recompile the program.
245	?	ILLEGAL SEARCH-IDENTIFIER	The compiler issues this message to indicate a number of different conditions; the compiler action varies according to the format of the SEARCH statement: • When the VARYING option names an item which is not an integer (contains no decimal positions), the compiler ignores the VARYING option. • When the identifier named in a SEARCH or SEARCH ALL statement is undefined or is not a table or does not include an INDEXED BY clause, the compiler ignores the statement. • When a table named by a SEARCH ALL statement does not contain any KEY items, the statement is ignored.	Correct the error and recompile the program.
246	?	ILLEGAL PAIR OF OPERANDS IN SET STATEMENT	The SET statement contains illegal subject-object pairs. The compiler ignores the statement.	Review the rules for the SET statement. Correct the error and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
247	?	ILLEGAL IDENTIFIER IN SET STATEMENT	The compiler ignores the illegal identifier.	Correct the error and recompile the program.
248	.	VALUE CLAUSE IN AN ITEM SUBORDINATED TO AN OCCURS TABLE	The VALUE clause is not permitted within an entry subordinate to an OCCURS.	If a value is desired, define the value first, then redefine it with the table description.
249	?	NO OF INDICES DOES NOT MATCH NO OF DIMENSIONS	The number of indices or subscripts used to access an item in a table does not match the number of levels defined for the table. When too many indices are mentioned, the compiler simply ignores the excess indices. When too few indices are mentioned, the compiler assumes the first occurrence for each of the missing indices.	Correct the error and recompile the program.
250	?	ILLEGAL NAME OF TABLE ELEMENT	A reference to a table item refers to an undefined item. The compiler changes the reference to TALLY.	Correct the error and recompile the program.
251	?	ILLEGAL SUBSCRIPT OR INDEX	The following are causes of this message: • In relative indexing, the amount to be added to the index is greater than 65K. The compiler changes the amount to 0. • An illegal item is used as a subscript; i.e., the subscript is not an integer or an index-data-item. The compiler assumes a constant subscript of 1. • A constant subscript specifies an occurrence outside the bounds of the table. The compiler generates code for the subscript as though it were legal, thus accessing whatever happens to be at the location. • The specified index does not belong to the same table as the table item referenced. The compiler accepts the index as though it were legal, thus yielding unpredictable results.	Correct the error and recompile the program.
252	.	NUMERIC USAGE WITH NON-NUMERIC PIC. PIC 9 IS ASSUMED	The indicated item specifies a USAGE other than DISPLAY for X-type data. The compiler assumes PIC 9 with the specified usage for the item.	Correct the error and recompile the program.
253	?	MIXED SUBSCRIPTING AND INDEXING	The COBOL language does not permit the mixing of subscripts and indices in a reference to a table item. This compiler will process the reference correctly.	To maintain compatibility with the COBOL language, alter the reference so that it contains all subscripts or all indices.
254	?	SUBSCRIPT MUST BE ONE-WORD INTEGER > 0	The indicated constant subscript is less than or equal to zero or greater than 65K. The compiler assumes a subscript of 1.	Correct the error and recompile the program.

Table 3-4. COBOL Compiler Diagnostic Messages (Continued)

NO.	TYPE	MESSAGE	MEANING	ACTION
255	?	DEVICE NAME MORE THAN 8 CHARACTERS	The device name in the SELECT . . . ASSIGN clause is limited to 8 characters.	Correct the error and recompile the program.
401	*	UNABLE TO OPEN FILE <i>filename</i>	The compiler was unable to open the file whose formal file designator is <i>filename</i> . Compilation terminates.	Supply the file.
402	*	UNABLE TO USE FILE <i>filename</i>	The attributes of the file whose formal file designator is <i>filename</i> did not match those needed by the compiler. A file information display is sent to \$STDLIST and compilation terminates.	Compare the file attributes given in the file information display with those required.
403	*	END-OF-FILE ON FILE <i>filename</i>	An unexpected end-of-file was encountered on the file whose formal file designator is <i>filename</i> . A file information display is sent to \$STDLIST and compilation terminates.	Supply a larger file.
404	*	READ/WRITE FAILURE ON <i>filename</i>	An error has occurred on the file whose formal file designator is <i>filename</i> . A file information display is sent to \$STDLIST and compilation terminates.	Use the file information display to determine the nature of the error.
405	*	UNABLE TO CLOSE FILE <i>filename</i>	The compiler was unable to close the file whose formal file designator is <i>filename</i> . A file information display is sent to \$STDLIST and compilation terminates.	Use the file information display to determine the reason for the error.

Table 3-4.1. COBOL Status Parameter Values Returned by KSAM

STATUS VALUE	MEANING	ACTION
"00"	SUCCESSFUL COMPLETION – I/O operation was completed successfully.	None.
"02"	SUCCESSFUL COMPLETION, DUPLICATE KEY – Write or rewrite operation was successful; a duplicate key was written for a key that is allowed duplicates.	None required, returned for information only.
"10"	AT END – End-of-file or beginning-of-file reached during sequential or random read. There is no next logical record in ascending key order.	Usually none. This result is a signal to close the file or perform another end-of-file action.
"21"	INVALID KEY, SEQUENCE ERROR – Attempt was made to write a record with a primary key that is out of sequence when the file was opened for sequential access.	Check the primary key value in the record being written. If you don't want sequence checking, re-open the file for random or dynamic access.
"22"	INVALID KEY, DUPLICATE KEY – Attempt was made to write or rewrite a record with a key value that duplicates a key value in an existing record, and duplicates are not allowed.	Check the key values. If possible change them to avoid the duplication. If duplicate keys must be written, create the file again allowing duplicates for the key and then copy the old file to the new file with FCOPY.
"23"	INVALID KEY, NO RECORD FOUND – Attempt to access record identified by a key with CKSTART or CKREADBYKEY, but no record is found with the specified key value at the specified key location.	Check the <i>keyvalue</i> , <i>keylength</i> , and <i>keylocation</i> parameters in the call. Correct if necessary. If record that cannot be found should be in the file, you may want to list the data file with FCOPY.
"24"	INVALID KEY, BOUNDARY VIOLATION – An attempt was made to write beyond the externally defined end of file.	
"30"	LOCK DENIED – File was locked by another process.	Wait until process locking file unlocks it – try again or lock file with <i>lockcond</i> = 1.
"31"	UNLOCK DENIED – File was not locked by calling process.	Before calling CKUNLOCK to unlock a shared file it must have been locked by a call to CKLOCK.
"9n"	FILE SYSTEM ERROR – Where <i>n</i> is a binary number between 0 and 255 corresponding to a File System Error code (Refer to table A-1).	Within your program you can call CKERROR to convert the number to a displayable value and then display it. Look up the value in table A-1 and perform any suggested action.

Note that COBOL error messages 752 and 753 are issued for errors processing KSAM files. (Refer to table 3-5 in this manual.)

Table 3-5. COBOL Object Program Diagnostic Messages

NO.	MESSAGE	MEANING	ACTION
520	TRYING TO CLOSE AN UN-OPENED FILE	The job is aborted.	Correct error in program and recompile.
521	CLOSE UNSUCCESSFUL	The job is aborted.	To find out why the CLOSE was unsuccessful, check FCLOSE description in the MPE Intrinsic Reference Manual; try to run the program again.
540	TRYING OPEN, FILE ALREADY OPEN	The job is aborted.	Remove the redundant OPEN statement(s) or insert necessary CLOSE statement(s) and recompile the program.
542	OPEN SERVICE NOT GRANTED	The job is aborted.	To find out why the service was not granted, check the FOPEN description in the MPE Intrinsic Reference Manual; try to run the program again.
543	AREA ALREADY IN USE BY SAME AREA CLAUSE	The job is aborted.	Correct the error and recompile the program.
550	TRY TO READ CLOSED FILE, OR FILE NOT OPEN	The job is aborted.	Correct the program.
551	READ SERVICE NOT GRANTED	The job is aborted.	To find out why the service was not granted, check the FREAD description in the MPE Intrinsic Reference Manual; try to run the program again.
610	TRYING WRITE, FILE NOT OPEN YET	The job is aborted.	Correct the program.
611	WRITE SERVICE NOT GRANTED	The job is aborted. }	To find out why the service was not granted, check the FWRITE description in the MPE Intrinsic Reference Manual; try to run the program again.
630	ERROR DURING WRITE OF USER LABEL		
631	USER LABEL SPACE UNALLOCATED OR ATTEMPT TO WRITE BEYOND LABEL LIMIT	The job is aborted. (When the file is input, this message means that the user has tried to read more user's labels than exist on the file; when the file is output, this message means that the user has tried to write more than 8 user's labels.) On output a user has attempted to write a label on a file which was created using a :BUILD command and has no label allocated in the file.	Correct the program.
706	UNDERFLOW IN EXPONENTIATE	The result of an exponentiate falls in the range -10^{-28} to $+10^{-28}$.	Let COBOL build the file and use a :FILE filename and SAVE command prior to running the program. Check operands.
707	OVERFLOW IN EXPONENTIATE	The result of an exponentiation exceeds $\pm 10^{56}$.	Check operands.
708	UNDEFINED RESULT FROM EXPONENTIATE	An attempt was made to compile a^b where $a \leq 0$ and b is not an integer.	Check operands and rewrite program.

Table 3-5. COBOL Object Program Diagnostic Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
710	ILLEGAL DECIMAL DIGIT IN << mnemonic >>	<<mnemonic>> is one of the following: ADDD, SUBD, CMPD, SLD, NSLD, SRD, DIVD, and MPYD. An illegal packed decimal digit was encountered in execution. The invalid data is printed on the list device and the program is aborted.	Correct data and re-run program.
711	ILLEGAL SOURCE DIGIT IN CONVERSION <<mnemonic>>	<<mnemonic>> is one of the following: CVDA, CVAD, CVDB. Replace illegal digit with zero and restart.	Correct data, if necessary, and re-run program.
750	DEPENDING-ON IDENTIFIER OUT OF BOUNDS	This error only occurs when the user selects the BOUNDS option of the \$CONTROL compiler subsystem command.	Correct program by removing bounds violation.
751	SUBSCRIPT/INDEX OUT OF BOUNDS	This error only occurs when the user selects the BOUNDS option of the \$CONTROL compiler subsystem command.	Correct program by removing bounds violation.
752	INVALID I/O TYPE (KSAM files only)	I-O type specified as parameter in call to CKOPEN or CKOPENSHR is not 0, 1, or 2.	
753	ILLEGAL KSAM OPERATION (KSAM files only)	An illegal operation attempted such as call to CKDELETE or CKREWRITE not preceded by a call to a read procedure; or operation not consistent with access type such as an attempt to read a file opened for output only or vice versa.	

RPG MESSAGES

During compilation, preparation, and execution of an RPG/3000 program, three types of messages may be issued to help you diagnose various types of errors:

- Compile-Time Messages
- Run (Execution)-Time Messages
- Operating System Messages

Compile-time and Run-time messages are discussed in this section (tables 3-6 through 3-15 for Compile-time; tables 3-16 through 3-18 for Run-time messages). The MPE operating system messages are discussed in section II.

COMPILE-TIME MESSAGES

Whenever RPG/3000 detects an error during compilation, it prints an appropriate error number on the source program listing to the right of the record (line) that contains the error. The number will be followed by the suffix W (for a non-fatal warning) or T (for a fatal error that terminates the program). Then, following the Symbol Table (and optional Cross Reference Listing), RPG/3000 prints an error summary showing, for each error encountered:

- The error number,
- A message describing the error, and
- The number of the line in which the error appears.



EXAMPLE

An example of an error indication appears in Line 34 of the program listing shown in figure 3-3. This error is identified by the error number 527W (Item 1), where the suffix W shows that the error is not fatal. The error is described further in a detailed message (Item 2), NO FIELD DESCRIPTIONS FOR PREVIOUS RECORD.

For a discussion of any particular message, refer to tables 3-6 through 3-15. These tables show the error numbers, their type (T or W), their related messages, their probable causes, and what you should do in response to the messages. In these tables, the error messages are listed in ascending order according to their corresponding error message numbers. The error message numbers, in turn, are grouped according to the type of specification or record to which they pertain, as follows:

Specification/Record Type	Error Number	Table Number
Common (Any Specification or Record)	0 through 99	3-6
Control Record (H)	100 through 199	3-7
File Description (F)	200 through 299	3-8
File Extension (E)	300 through 399	3-9
Line Counter (L)	400 through 499	3-10
Input (I)	500 through 599	3-11
Calculation (C)	600 through 699	3-12
Output (O)	700 through 799	3-13
Compiler Subsystem Command (\$)	800 through 899	3-14
Other Errors (not listed at the right of the pertinent statement)	900 through 999	3-15

RUN (EXECUTION) TIME ERRORS

Run-time errors are those encountered during object-program execution. They fall into three general classes:

- RPG-detected errors.
- IMAGE-detected errors.
- USWITCH command errors.

Normally, when an RPG/3000 object program encounters any such errors, a run-time message describing the error appears on the operator's console (in a batch job) or terminal (in an interactive session), and the program pauses. (RPG-detected errors can also be handled in other ways, as discussed below.) The operator or terminal user can take any of three options:

- Continue processing in-line,
- skip the erroneous record and continue processing, or
- terminate.

The three types of run-time messages are described below.

RPG-DETECTED ERRORS. RPG-detected errors are detected and reported by code supplied automatically by the RPG/3000 compiler. RPG/3000 allows you (at compile-time) to direct the way in which RPG-detected run-time errors are handled. You do this by:

1. Re-directing or suppressing transmission of error messages, by making an entry in the **Error Log Field** (Column 55) of the Control Record Specification (discussed in paragraph 3-17 of the RPG/3000 Reference Manual), and
2. Specifying a pre-selected response to errors, by making an entry in the **Error Response Field** (Columns 56 through 71) of the Control Record Specification Sheet (discussed in paragraph 3-19 of the RPG/3000 Reference Manual).

Note: You can re-direct or suppress transmission of RPG-detected messages only if you also specify a pre-selected response.

The sixteen possible RPG-detected error messages are listed in table 3-16. This table shows:

- The error number (1 through 16).
- The message content.
- The probable cause of the error.
- The recovery procedure suggested.
- The column number (56 through 70) in the **Error Response Field** that corresponds to this error. On the specification sheet, you make an entry (0 through 5) in this column to determine how you want the error handled (see paragraph 3-18 of the RPG/3000 Reference Manual).
- The ***ERROR Code**. (This is a letter written into the one-byte, alphanumeric field named ***ERROR**. Whenever this error occurs, and the continue (0) or bypass (1) option is chosen, the ***ERROR** field can be tested by using Calculation Specifications.)
- The entries allowed (0-5) in the **Error Response Field**. (Not all pre-selected responses apply to all RPG-detected errors.)

IMAGE-DETECTED ERRORS. IMAGE-detected errors are detected by the IMAGE/3000 Data Base Management Subsystem. The corresponding error messages are summarized in table 3-17. When one of these error messages is listed, it is preceded by a **FATAL FILE ERROR** message and a value indicating the IMAGE status that caused it.

USWITCH COMMAND ERRORS. In batch mode, various error messages may follow the attempted execution of a USWITCH command (Section 4-33 of the RPG/3000 Reference Manual). These messages are summarized in table 3-18. (In an interactive session, no messages are output for the USWITCH command.)

PAGE 0001 HEWLETT PACKARD 32104A.12.03 RPG/3000 TUE, NOV 19, 1974, 4:11 PM									
0001	*CONTROL USLINIT, CODE								
0002	00010*CONTROL QUOTE=								
0003	00020M X S								
0004	00030FLETIN	IPF	F	80	80	READ	FPT004		
0005	00040FDPGFILE20	F	120	120		PRINTER	FPT004		
0006	00050FDPGFILE30	F	80	80		PUNCH	FPT004		
0007	00060F	LN		64	1		FPT004		
0008	00070F	LT		2400	1		FPT004		
0009	00080F	IA		15	1		FPT004		
0010	00090F	IB		15	1		FPT004		
0011	00100F	IC		15	1		FPT004		
0012	00110F	ID		15	1		FPT004		
0013	00120F	IF		15	1		FPT004		
0014	00130F	IT		75	1		FPT004		
0015	00140F	IN		15	1		FPT004		
0016	00150FLETIN	AA	01	1	CD		FPT004		
0017	00160F					2 20 DATE	FPT004		
0018	00170F					21 25 PUNCH	FPT004		
0019	00180F	HB	02	1	CL		FPT004		
0020	00190F					2 2 SPACE	FPT004		
0021	00200F					3 6 MATLEVLM1	53 FPT004		
0022	00210F					3 66 LN	FPT004		
0023	00220F	CA	06	1	C*	2 CA	FPT004		
0024	00230F					5 19 14	FPT004		
0025	00240F	CH	07	1	C*	2 CB	FPT004		
0026	00250F					5 19 14	FPT004		
0027	00260F	CC	08	1	C*	2 CC	FPT004		
0028	00270F					5 19 14	FPT004		
0029	00280F	CD	09	1	C*	2 CD	FPT004		
0030	00290F					5 19 14	FPT004		
0031	00300F	CE	10	1	C*	2 CE	FPT004		
0032	00310F					5 19 14	FPT004		
0033	00320F	DD	05	1	CF	2 CO 3 CI	FPT004		
0034	00330F	XX	LR	1	C/	2 C* 3 C	FPT004		
0035	00340F						FPT004		
0036	00350F	CHECK FOR DATE CARD					FPT004		
0037	00360F						FPT004		

PAGE 0017 RPA0RJ ERRORS DURING COMPILATION									
527W	NO FIELD DESCRIPTIONS FOR PREVIOUS RECORD.								
646W	DEBUG OPTION NOT SPECIFIED IN COL 15 OF CONTROL CARD								
721W	OUTPUT INDICATORS IN COL 23-31 MISSING OR ALL NEGATIVE.								
901W	INDICATOR DEFINED BUT NOT REFERENCED								
NO. SERIOUS ERRORS 000					NO. WARNINGS 004				
PROCESSOR TIME=0:00:29					ELAPSED TIME=0:02:29				
							0034	0105	0235
								0241	

Figure 3-3. Compile-Time Error Messages

Table 3-6. RPG Common Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
01	W	EXPECTS \$ CONTINUATION, IMAGE IGNORED	You did not enter a complete compiler subsystem command on this record (or card image).	The compiler ignores this record. If necessary, correct the record.
02	T	SEQUENCE ERROR	You did not enter the records making up the source program in the proper sequence (as indicated by the Sequence Number Field, Cols. 1-5).	Arrange the source program properly, and re-compile it.
03	T	NON-EXISTENT TYPE CARD	You specified an entry in the Form Type Field (column 6) that indicates a type of specification not existing in RPG.	Enter the correct type and recompile.
04	T	CARD TYPE OUT OF ORDER	You submitted a source program with at least one specification record out of proper sequence (according to type). --for example, with a File Description Specification before the Control Record Specification.	Re-arrange and re-compile the source program.

Table 3-6. RPG Common Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
05	T	TEXT FILE RECORD TOO SHORT	You defined a text file with records less than 40 bytes long.	Correct the record length and re-compile the source program.
06	T	ENTRY OR HEADER-SPACE OVERFLOW IN USL FILE	You specified a user sub- program library that was not large enough to contain all program entries or headers.	Define a larger USL file and re-compile. If you used the default value, you must explicitly specify a USL file when you re-compile (:RPGGO or :RPGPREP).
07	T	CODE GENERATION ERROR	Compiler error.	Inform HP Customer Engineering.
08	T	USL GENERATION ERROR	Compiler error.	Inform HP Customer Engineering.
09	T	RPG CODE GENER- ATION ERROR	Compiler error.	Inform HP Customer Engineering.
10	T	SYMBOL TABLE AREA (DB TO DL) OVERFLOW	You specified, in your source program, too many symbols for the RPG Symbol Table to hold.	Define a larger DB-DL area. If DB-DL is presently 32 K, try to reduce number of symbols in your program.

Table 3-7. RPG Control Record (H) Specification Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
101	W	MORE THAN ONE HEADER CARD, SPECIFICATION DROPPED.	You included more than one Control Record Specification in your source program.	The compiler ignores any Control Record Specifi- cation after the first one. Remove the extra specifications.
102	W	COLUMNS 7-14 NOT BLANK, ASSUME BLANK.	You entered data in Cols. 7-14, (not used by RPG/3000)	The compiler ignores your entry and assumes you left these columns blank.
103	W	COLUMN 15 (DEBUG OPTION) NOT BLANK OR 1, ASSUME 1.	You specified a character other than 1 in the Debug Field (Col. 15).	The compiler ignores your entry and assumes you entered a 1, specifying execution of DEBUG operations. If you do not want DEBUG operations, correct this record.
104	W	COLUMNS 16-20 NOT BLANK, ASSUME BLANK.	You entered data in column 16-20, (not used in RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
105	W	COLUMN 21 (IN- VERTED PRINT) NOT BLANK, I, J OR D, ASSUME BLANK.	You entered a character other than an I, J, or D in the Inverted Print Field (Col. 21).	The compiler ignores your entry and assumes you left it blank, specifying Domestic Format. If you do not want Domestic Format, change this entry to I, J, or blank.
106	W	COLUMNS 22-25 NOT BLANK, ASSUME BLANK.	You entered data in Columns 22-25, (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
107	W	COLUMN 26 (ALTER- NATE COLLATING SEQUENCE) NOT BLANK, S, O, OR E. ASSUME BLANK.	You specified a character other than an S, E, or O, in the Alternate Collating Sequence Field (Col. 26).	The compiler ignores your entry and assumes you left the field blank, specifying no alternate sequence. If you wish an alternate collating sequence, change the entry to S, O, or E.

Table 3-7. RPG Control Record (H) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
108	W	COLUMNS 27-33 NOT BLANK, ASSUME BLANK.	You entered data in Columns 27-33, (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
109	W	COLUMN 34 (BINARY SEARCH OPTION) NOT BLANK OR B, ASSUME B.	You specified a character other than B in the Table/Array Look-Up Field (Col. 34).	The compiler ignores your entry and assumes you entered a B for Binary Look-Up. If you do not wish a binary look-up, change this entry to blank.
110	W	COLUMNS 35-39 NOT BLANK, ASSUME BLANK.	You entered data in Columns 35-39, (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
111	W	COLUMN 40 (SIGN CHECK) NOT BLANK, N, I, O, B, OR S, ASSUME BLANK.	You entered a character other than a blank or N, I, O, B, or S in the Sign Process Field (Col. 40).	The compiler ignores your entry and assumes you left the field blank, specifying no sign-forcing. If you wish sign-forcing, specify N, I, O, B, or S.
112	W	COLUMN 41 (1P FORMS POSITIONING) NOT BLANK OR 1, ASSUME 1.	You entered a character other than a 1 in the Form Positioning Field (Col. 41).	The compiler ignores your entry and assumes you entered a 1, specifying form position verification. If you do not wish form positioning, correct the entry.
113	W	COLUMN 42 (INDICATOR INITIALIZATION) NOT BLANK OR S, ASSUME S.	You entered a character other than S in the Indicator Setting Field (Col. 42).	The compiler ignores your entry and assumes you entered an S, specifying that the IP, L0, and all field indicators be set on. Correct the entry, if necessary.
114	W	COLUMN 43 (FILE TRANSLATION) NOT BLANK, F OR O, ASSUME BLANK.	You entered a character other than an F or O, in the File Translation Field (Col. 43).	The compiler ignores your entry and assumes you left the field blank, specifying no translation. If you wish file translation, correct the entry to F or O.

Table 3-7. RPG Control Record (H) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
115	W	COLUMNS 44-46 NOT BLANK, ASSUME BLANK.	You entered data in Columns 44-46, (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
116	W	COLUMN 47 (SKIP TO CHANNEL 1 SUPPRESS) NOT BLANK OR S, ASSUME S.	You entered a character other than an S, in the Skip-Suppress field (Col. 47).	The compiler ignores your entry and assumes you entered an S, specifying skip suppress. If you do not wish skip suppress, change the entry to blank.
117	W	COLUMNS 48-51 NOT BLANK, ASSUME BLANK.	You entered data in Columns 48-51 (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
118	W	COLUMN 52 (CROSS REFERENCE) NOT BLANK OR X, ASSUME X.	You entered a character other than an X, in the Cross-Reference Listing Field (Col. 52).	The compiler ignores your entry and assumes you entered an X, for printing a Cross-Reference Listing. If you do not want a Cross-Reference Listing, enter a blank in Col. 52.
119	W	COLUMN 53 (CARRIAGE CONTROL TYPE) NOT BLANK OR L, ASSUME L.	You entered a character, other than L in the Carriage Control Type Field (Col. 53).	The compiler ignores your entry and assumes you entered an L, so that skip requests refer to line numbers. If your skip requests refer to channel numbers, leave this column blank.
120	W	COLUMN 54 (TEXT SEQUENCE CHECK) NOT BLANK, N OR S, ASSUME BLANK.	You entered a character other than an N or S in the Textfile Sequence Check Field (Col. 54).	The compiler ignores your entry and assumes you left the field blank for no sequence checking. If you wish sequence-checking, enter S in Col. 54.

Table 3-7. RPG Control Record (H) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
121	W	COLUMN 55 (RUN TIME ERROR CONTROL) NOT BLANK, N OR S, ASSUME S.	You entered a character, other than an N or S in the Error Log Field (Col. 55).	The compiler ignores your entry and assumes you entered an S, for transmitting error messages to the operator and providing a dump.
122	W	COLUMN 56 (RUN TIME ERROR OPTION) NOT BLANK OR 1-5, ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 56).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
123	W	COLUMN 57 (RUN TIME ERROR OPTION) NOT BLANK OR 1-5, ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 57).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
124	W	COLUMN 58 (RUN TIME ERROR OPTION) NOT BLANK OR 1-5. ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 58).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
125	W	COLUMN 59 (RUN TIME ERROR OPTION) NOT BLANK OR 0 OR 2-5. ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 59).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
126	W	COLUMN 60 (RUN TIME ERROR OPTION) NOT BLANK OR 0 OR 2-5. ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 60).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.

Table 3-7. RPG Control Record (H) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
127	W	COLUMN 61 (RUN TIME ERROR OPTION) NOT BLANK OR 0 OR 2-5. ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 61).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
128	W	COLUMN 62 (RUN TIME ERROR OPTION) NOT BLANK OR 0-5. ASSUME 5.	You entered a character other than 0-5, in the Error Response Field (Col. 62).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
129	W	COLUMN 63 (RUN TIME ERROR OPTION) NOT BLANK OR 0-5. ASSUME 5.	You entered a character other than 0-5, in the Error Response Field (Col. 63).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
130	W	COLUMN 64 (RUN TIME ERROR OPTION) NOT BLANK OR 0-5. ASSUME 5.	You entered a character other than 0-5, in the Error Response Field (Col. 64).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
131	W	COLUMN 65 (RUN TIME ERROR OPTION) NOT BLANK, 0, OR 2-5, ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 65).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
132	W	COLUMN 66 (RUN TIME ERROR OPTION) NOT BLANK, 0, OR 2-5. ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 66).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.

Table 3-7. RPG Control Record (H) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
133	W	COLUMN 67 (RUN TIME ERROR OPTION) NOT BLANK, 0 OR 2-5, ASSUME 5.	You entered a character other than 1-5, in the Error Response Field (Col. 67).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
134	W	COLUMN 68 (RUN TIME ERROR OPTION) NOT BLANK, 0 OR 2-5, ASSUME 5.	You entered a character, other than 1-5, in the Error Response Field (Col. 68).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
135	W	COLUMN 69 (RUN TIME ERROR OPTION) NOT BLANK, 0 OR 2-5, ASSUME 5.	You entered a character, other than 1-5, in the Error Response Field (Col. 69).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
136	W	COLUMN 70 (RUN TIME ERROR OPTION) NOT BLANK, 0 OR 2-5, ASSUME 5.	You entered a character, other than 1-5, in the Error Response Field (Col. 70).	The compiler ignores your entry and assumes you entered a 5, for re-directing or suppressing error messages, printing dump, and ending program.
137	W	COLUMN 71-74 NOT BLANK, ASSUME BLANK.	You entered data in Columns 71-74, (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
138	W	COLUMNS 75-80 (PROGRAM NAME) INVALID, ASSUME RPGOBJ.	Your program name did not begin with an alphabetic character (A-Z), and/or the remaining characters were not alphanumeric (A-Z, 0-9), and/or they contained embedded blanks.	The compiler ignores your entry and assumes you assigned the name RPGOBJ. Correct the entry if necessary.



Table 3-7. RPG Control Record (H) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
139	W	NO HEADER CARD FOR RPG PROGRAM, ASSUME BLANK HEADER CARD.	You left the Control Record Specification out of your RPG program.	The compiler assumes you had a blank Control Record Specification. Correct the specification if necessary.
140	W	COLUMNS 56-70 NOT BLANK WHEN COLUMN 55 CONTAINS S, ASSUME BLANK.	You entered data in the Error Response Field (Col. 56-70) when the Error Log Field (Col. 55) contained an S.	The compiler ignores your entry and assumes you left Cols. 56-70 blank.

Table 3-8. RPG File Description (F) Specification Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
201	T	FILE NAME PREVIOUSLY DEFINED IN COL. 7-14, SPEC IS DROPPED.	You assigned the file name used in the Filename Field (Col. 7-14) in a previous File Description record.	The compiler ignores the specification. Correct the file name and re-compile.
202	T	INVALID FILETYPE ENTRY IN COL. 15, ASSUME I.	You entered an invalid filetype entry in the File Type Field (Col. 15).	The compiler ignores your filetype entry and assumes you entered an "I" for Input File. If you do not intend an input file, change the entry to O, U, D or C.
203	W	FILE DESIGNATION IN COL. 16 IS INVALID FOR FILETYPE, ASSUME SECONDARY.	You specified a file designation in the File Designation Field (Col. 16) that is invalid for the filetype.	The compiler ignores your file designation entry and assumes you designated a secondary file. If you do not intend a secondary file, change the entry to P, R, C, T, D, or blank.
204	W	INVALID END OF FILE ENTRY IN COL. 17, ASSUME BLANK.	You entered an invalid end-of-file entry in the End-of-File Field (Col. 17).	The compiler ignores your end-of-file entry and assumes you left it blank.
205	W	INVALID SEQUENCE ENTRY IN COL. 18, ASSUME BLANK.	You entered an invalid sequence entry in the Input Sequence Check Field (Col. 18).	The compiler ignores your sequence entry and assumes you left it blank, for sequence check of matching file in ascending order. If you wish sequence checking in descending order, change this entry to D.
206	W	FILE FORMAT IN COL. 19 IS INVALID, ASSUME F.	You entered an invalid file format in the Record Format Field (Col. 19).	The compiler ignores your entry and assumes the records in the file are Fixed-length.

Table 3-8. RPG File Description (F) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
207	W	INVALID BLOCK LENGTH IN COL. 20-23, ASSUME EQUAL TO RECORD LENGTH.	You entered a block length in the Block Length Field (Col. 20-23) other than 1 through 9999, or blank.	The compiler ignores your entry and assumes the block length and record length are equal. Correct the block length if necessary.
208	W	INVALID RECORD LENGTH IN COL. 24-27, ASSUME RECORD LENGTH OF 80.	You entered a record length in the Logical Record Length Field (Col. 24-27). Other than 1 through 9999.	The compiler ignores your entry and assumes the record length is 80 characters. Correct the record length.
209	T	INVALID MODE OF PROCESSING ENTRY IN COL. 28.	You entered a character other than an R, in the Processing Mode Field (Col. 28).	The compiler ignores your entry and assumes sequential processing. Correct the processing mode to L or R.
210	T	INVALID LENGTH OF KEY FIELD OR RECORD ADDRESS FIELD IN COLUMNS 29-30.	You entered a key length other than 1 through 99 or blank in the Key or Record Address Field (Cols. 29-30).	The compiler ignores your entry and assumes that the length is equal to 3.
211	W	INVALID RECORD ADDRESS TYPE ENTRY IN COLUMN 31, ASSUME BLANK.	You entered a character other than an I, in the Record Address Type Field (Column 31).	The compiler ignores your entry and assumes you left it blank, for direct-access file not processed by chaining file or RAF. To specify processing with a chaining file or RAF, change the entry to I.
212	W	INVALID ENTRY IN COL. 32, ASSUME BLANK.	You entered a character other than a T, D or 1 through 7, in the File Organization/ Additional I/O Area Field (Col. 32).	The compiler ignores your entry and assumes you left it blank, requesting two buffers.
213	W	INVALID OVERFLOW INDICATOR IN COL. 33-34, ASSUME BLANK.	You entered an invalid overflow indicator in the Overflow Indicator Field (Col. 33-34).	The compiler ignores your entry and assumes you left this field blank (no indicator assigned). To specify an indicator, enter OA-OG, or OV.

Table 3-8. RPG File Description (F) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
214	W	COLUMNS 35-38 SHOULD BE BLANK.	You entered invalid data in Columns 35-38, (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
215	T	IF YOU WISH TO PROCESS YOUR OWN LABELS, COLUMN 53 MUST BE E OR 2-9.	You entered a character, other than the letter E or digits 2-9, to process your own labels.	The compiler assumes no user label processing. To process labels, enter E or 2-9.
216	W	COLUMNS 47-52 ARE NOT BLANK.	You entered invalid data in Columns 47-52, (not used by RPG/3000).	The compiler ignores your entry and assumes you left these columns blank.
217	W	INVALID ENTRY IN COL. 53.	You entered a character, other than an S, E or 2 through 9, in the Disc Labels Field (Column 53).	The compiler assumes that you left the entry blank.
218	W	COLUMNS 60-65 ARE NOT BLANK.	You entered characters in these fields but did not enter K (for continuation record) in Column 53.	The compiler ignores your entry and assumes you left these columns blank.
219	W	COLUMN 66 IS NOT 'A' OR BLANK, ASSUME BLANK.	You entered a character, other than an A in the File Addition Field (Col. 66).	The compiler ignores your entry and assumes you left this field blank. To specify appending new records, change this entry to A.
220	W	COLUMN 67 IS NOT BLANK.	You entered a character other than a blank in this column.	The compiler assumes that you entered a blank, requesting 8 disc extents. To request more or less extents, enter the number desired.
221	W	COLUMN 70 IS NOT BLANK.	You entered a character other than a blank in this column.	The compiler assumes that you entered a blank.

Table 3-8. RPG File Description (F) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
222	W	COLUMN 73-74 ARE NOT BLANK.	You entered a character other than a blank in this column.	The compiler assumes that you entered a blank.
223	W	INVALID FILE CONDITIONING INDICATOR IN COL. 71-72, ASSUME BLANK.	You entered an invalid file conditioning indicator in the File Conditioner Field (Col. 71-72).	The compiler ignores your entry and assumes you left this field blank.
224	W	MULTIPLE PRIMARY FILE DEFINED IN COL. 16, ASSUME SECONDARY.	You defined more than one primary input file in the File Designation Field (Col. 16).	The compiler assumes any primary file defined after the first primary file is a secondary file.
225	T	IF 'SPECIAL' IN COLUMN 40-46, A ROUTINE NAME MUST BE IN COLUMN 54-59.	You didn't enter a subroutine name in the Name of Label Exit Field (Col. 54-59) to process user labels or files on SPECIAL devices.	Enter a routine name in Col. 54-59, or remove SPECIAL from Col. 40-46 and re-compile.
226	W	INVALID NUMBER OF EXTENTS IN COL. 68-69, SYSTEM DEFAULT VALUE IS USED.	You entered a number of extents less than 1 or greater than 16 in the Extents Field (Cols. 68-69).	The compiler ignores your entry and by system default assigns eight extents.
227	T	FILE DESIGNATION ENTRY IN COL. 16 INVALID FOR OUTPUT OR DISPLAY FILE, ASSUME BLANK.	You specified a file designation in the File Designation Field (Col. 16) that is invalid for the output or display file.	The compiler ignores your file designation entry and assumes you left it blank. Set the File Description entry to blank or change File Type to I, U, or C.
228	W	END OF FILE ENTRY IN COL. 17 INVALID FOR FILE TYPE.	You entered a character other than E or blank in the End-of-File (Col. 17) for the file type specified.	The compiler assumes you entered a blank.
229	W	ENTRY IN COL. 18 INVALID FOR TYPE OF FILE OR MODE OF PROCESSING.	You entered a letter or digit, other than an A or D, in the Input Sequence Check Field (Col. 18) that was invalid for the type of file or mode of processing.	The compiler assumes you entered a blank.

Table 3-8. RPG File Description (F) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
230	W	OVERFLOW INDICATOR IN COL. 33-34 PREVIOUSLY ASSIGNED, ASSUME BLANK.	You previously assigned an overflow indicator in the Overflow Indicator Field (Col. 33-34).	The compiler ignores your entry and assumes you left this field blank. If you wish overflow processing, enter an unused overflow indicator.
231	W	INVALID OR BLANK EXTENSION CODE ENTRY IN COL. 39 FOR TABLE OR RECORD ADDRESS FILE, ASSUME E.	You entered a character, other than an E or L, in the Extension Code Field (Col. 39) for a Table or Record Address File.	The compiler ignores your entry and assumes you entered an E for a Table File in the File Extension Specification.
232	W	EXTENSION CODE IN COL. 39 IS INVALID, ASSUME BLANK.	You entered a letter or digit, other than an E or L, in the Extension Code Field (Col. 39).	The compiler ignores your entry and assumes you left it blank.
233	W	RECORD LENGTH IS LARGER THAN BLOCK LENGTH, ASSUME BLOCK LENGTH EQUAL.	You specified the record length to be larger than the block length.	The compiler ignores your entry and assumes the block length is equal to the record length.
234	W	BLOCK LENGTH IS NOT A MULTIPLE OF RECORD LENGTH, ASSUME UNBLOCK.	You specified that the block length is a multiple of the record length.	The compiler ignores your entry and assumes there is no blocking (the physical and logical record lengths are identical).
235	T	NO FILE DESCRIPTION SPECIFICATION FOUND.	You did not include any File Description Specification with your source program.	Re-compile the program with an appropriate File Description Specification.
236	W	NO PRIMARY FILE SPECIFIED IN COL. 16, ASSUME FIRST SECONDARY FILE AS PRIMARY.	You didn't specify a primary file in the File Designation Field (Col. 16).	The compiler assumes that the first secondary file is the primary file.

Table 3-8. RPG File Description (F) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
237	W	COL. 7-52 AND 66-72 ARE NOT BLANK FOR CONTINU- ATION LINE, ASSUME BLANK.	You made an entry in the col- umns, on a File Description Continuation Record.	The compiler assumes these columns are blank.
238	W	CONTINUATION LINE IS NOT ALLOWED AT THIS POINT.	Your first line in the File Description Specifications is a continuation line.	The compiler ignores this continuation line.
239	W	CONTINUATION ENTRY IN COL. 54-59 IS REPEATED FOR A FILE, SECOND ENTRY IGNORED.	You repeated a continuation entry; for example, you speci- fied RDEXIT in two continu- ation records for the same file.	The compiler ignores the second entry.
240	W	ENTRY IN COL. 54-59 OF A CONTINU- ATION CARD IS IN- VALID OR MISSING.	You entered invalid informa- tion in the Option Type Field (Cols. 54-59) or left this field blank.	The compiler ignores this continuation record.
241	T	INVALID FILENAME IN COL. 7-14, SPEC IS DROPPED.	You entered an invalid file- name in the File Name Field (Col. 7-14).	The compiler drops the specification; re-define the filename and re-compile.
242	W	ONLY ONE RECORD ADDRESS FILE PER PROGRAM IS ALLOWED, ASSUME SECONDARY.	You already specified one record address file in the program.	The compiler assumes the second file desig- nated is a secondary file.
243	W	A RECORD AD- DRESS FILE CAN- NOT BE A 'SPECIAL' FILE.	You specified a record ad- dress file as a SPECIAL file.	The compiler assumes this file is not a SPECIAL file.



Table 3-8. RPG File Description (F) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
244	W	NO PRIMARY OR SECONDARY FILE SPECIFICATION IN COLUMN 16.	In a program that uses multi-file input, you defined no primary or secondary input files.	Make the appropriate file definitions, and re-compile the program.
245	W	THIS CONTINUATION RECORD IS NOT ALLOWED FOR A NON-IMAGE FILE, SPEC IS DROPPED.	You entered a File Description Continuation record that is only permitted for an IMAGE/3000 file.	The compiler ignores this record.
246	T	ILLEGAL DATA BASE NAME IN COLUMNS 60-65.	You entered an improper IMAGE data base name.	Enter a correct name (an asterisk, followed by a letter, followed by letters or numbers).
247	T	ILLEGAL OPEN MODE IN COLUMN 66, ASSUME 2.	You entered a character other than 1, 2, 3, or blank in the Open Mode Field (Col. 66).	The compiler assumes Mode 2 -- Update Shared. Enter the correct mode, if you wish other than Mode 2.
248	T	ILLEGAL INPUT/OUTPUT MODE IN COLUMN 67.	You entered a character other than 2 through 8, S, B, C, or R, in the Input/Output Mode Field (Col. 67).	The compiler assumes Mode 2. Enter the correct mode, if you wish other than Mode 2.
249	W	RECORD ADDRESS TYPE IN COLUMN 31 MUST BE 'A', 'P', 'K', OR 'I' FOR IMAGE FILE, ASSUME 'A'.	You entered an improper character in the Record Address Type Field (Col. 31).	The compiler assumes you entered A (Alpha-numeric Keys).
250	T	RECORD ADDRESS TYPE IN COLUMN 31 MUST BE 'I' FOR DIRECT FILE.	The IMAGE File is a direct-access file, but you specified a record address type other than I (retrieve by record number).	The compiler assumes Mode I. Enter the correct mode, if necessary.
251	T	MODE OF PROCESSING IN COLUMN 28 MUST BE 'R' FOR DIRECT FILE, ASSUME R.	The IMAGE File is a direct-access file, but you specified a processing mode other than R (random).	The compiler assumes you entered R. Enter the correct mode if necessary.

Table 3-8. RPG File Description (F) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
252	T	RECORD ADDRESS TYPE IN COLUMN 31 MUST BE BLANK FOR SEQUENTIAL OR TAG FILE, ASSUME BLANK.	The IMAGE File is a sequential or TAG file, but you specified a record address type other than blank (sequential).	The compiler assumes you left this field blank. Enter the correct record address type.
253	T	MODE OF PROCESSING IN COLUMN 28 MUST BE SEQUENTIAL FOR SEQUENTIAL OR TAG FILE, ASSUME SEQUENTIAL.	The IMAGE File is a sequential file, but you specified an entry other than L (sequential between limits or Blank (sequential).	The compiler assumes you left this field blank. Enter the correct processing mode.
254	T	L IN COLUMN 28 CAN ONLY BE USED WITH S, B, C OR R IN COLUMN 67 FOR PREVIOUS FILE.	You specified L (for sequential processing between limits for this file) but a conflicting Input/Output Mode for the previous file.	The compiler assumes column 28 is blank. Enter the correct input/output mode in Column 28.
255	T	ITEM AND/OR ITEMXX NAME MISSING FOR 'L' IN COLUMN 28 FOR PREVIOUS FILE.	You did not supply the required ITEM and ITEMXX continuation records.	The compiler terminates your job at the end of compilation; supply the ITEM and ITEMXX records.
256	T	ITEM NAME MISSING FOR INPUT/OUTPUT MODE 5, 6,C, OR R FOR PREVIOUS FILE.	You did not provide the corresponding ITEM continuation record for this chained file.	The compiler terminates your job at the end of compilation; provide the ITEM continuation record and recompile.
257	T	ITEMXX MISSING FOR INPUT/OUTPUT MODE S OR B FOR PREVIOUS FILE.	You did not provide the corresponding ITEMXX continuation record for this sequential read operation.	The compiler terminates your job at the end of compilation; provide the ITEMXX continuation record and re-compile.
259	T	DATA BASE NAME MISSING FOR PREVIOUS FILE.	You did not provide a Data Base Name Record for this file.	The compiler terminates your job at the end of compilation; provide the Data Base Name Record and re-compile.

Table 3-9. RPG File Extension (E) Specification Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
301	T	TO FILENAME (COLUMN 19-26) INVALID OR UNDEFINED - RECORD IGNORED.	You entered an invalid or undefined filename in the To Filename Field (Col. 19-26). (An undefined file name is one that does not appear in the File Description Specifications.)	Re-define the To Filename and re-compile.
302	T	FROM FILENAME (COLUMN 11-18) INVALID OR UNDEFINED - RECORD IGNORED.	You entered an invalid or undefined filename in the From Filename Field (Col. 11-18). (An undefined file name is one that does not appear in the File Description Specifications.)	Re-define the From Filename and re-compile.
303	W	E NOT SPECIFIED ON FILE DESCRIPTIONS FOR FROM FILE.	You didn't specify an E on the File Description Specification (Col. 39) for the From File (Col. 11-18).	Enter an E in Column 39 of the File Description Specification for the From File.
304	T	FROM FILE IS NOT AN INPUT FILE, RECORD IGNORED.	You specified a non-input file in the From Filename Field (Col. 11-18).	Re-specify the correct type of file in the From Filename Field and re-compile.
305	W	CHAINING OR RECORD ADDRESS FILE AND COLS. 33-57 NON-BLANK - BLANK ASSUMED.	You entered data in Cols. 33-57, which should remain blank for chaining or Record-Address Files.	Remove the data from Cols. 37-57.
306	T	CHAINING FIELD NUMBER (COLUMN 10) NOT 1-9 - RECORD IGNORED.	You entered a character other than one of the digits 0 through 9 in Column 10.	Specify the correct digit and re-compile.
307	W	CHAINING AND C NOT SPECIFIED IN COLUMN 9 - ASSUME C.	You didn't specify a C in Column 9 of the Chaining Field Code (Col. 9-10).	The compiler assumes you entered a C in Col. 9, and combines this with the digit in Col. 10 to form the Chaining Code. Correct Col. 9.

Table 3-9. RPG File Extension (E) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
308	T	CHAINING CODE AND FROM FILE PREVIOUSLY SPECIFIED - RECORD IGNORED.	You previously specified the chaining code in the Chaining Field Code (Col. 9-10) and the from file in the From Filename Field (Col. 11-18).	The compiler ignores your record. Remove the duplicate chaining description.
309	T	TO FILE NOT A CHAINED OR RANDOM FILE - RECORD IGNORED.	You did not specify a chained or direct-access file in the To Filename Field.	Specify the correct type of record, and re-compile.
310	T	CONVERSION ROUTINE NAME (COLUMNS 27-32) INVALID - BLANK ASSUMED.	You entered an invalid conversion routine name in the Table, Array, or Routine Name Field (Col. 27-32).	The compiler ignores your entry and assumes you left this field blank. Enter a valid conversion routine name or leave this field blank.
311	T	CONVERSION ROUTINE (COLUMNS 27-32) PREVIOUSLY DEFINED AS A FIELD NAME - BLANK ASSUMED.	You previously defined a conversion routine in the Table, Array, or Routine Name Field (Col. 27-32) as a data field.	The compiler ignores your entry and assumes you left Cols. 27-32 blank. Re-name either the conversion routine name or the field name.
312	W	NOT ASSIGNED.	System error.	Inform HP Customer Engineering.
313	T	RECORD ADDRESS FILE PREVIOUSLY SPECIFIED ON EXTENSION SPECIFICATION, RECORD IGNORED.	You specified a record address file in a previous File Extension Specification.	Set up program so that there is only one record address file.
314	T	TO FILENAME (COLUMNS 19-26) MISSING FOR CHAINING OR RAF - SPECIFICATION IGNORED.	You didn't specify a filename, in the To Filename Field (Col. 19-26), for the chaining file or the record address file you specified.	Specify the filename and re-compile.

Table 3-9. RPG File Extension (E) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
315	T	TABLE/ARRAY NAME (COLUMNS 27-32) PREVIOUSLY DEFINED - RECORD IGNORED.	You previously defined the Table/Array Name in the Table, Array, or Routine Name Field (Col. 27-32).	Re-define the name and re-compile.
316	T	ENTRIES PER RECORD (COLUMNS 33-35) INVALID - ASSUME 1.	You specified an invalid number of entries in one record of the Entries Per Record Field (Col. 33-35). (The number of entries must be from 1 to 999.)	The compiler ignores your entry and assumes you entered a 1. Enter valid numeric characters, right-adjusted without embedded blanks, and re-compile.
317	T	ENTRIES PER TABLE/ARRAY (COLUMNS 36-39) INVALID - ASSUME 1.	You entered an invalid number of entries in the Entries Per Table/Array Field (Col. 36-39).	The compiler ignores your entry and assumes you entered a 1. Enter valid numeric characters, right-adjusted, with no embedded blanks, and re-compile.
318	W	P/B/L/R FIELD (COLUMN 43) INVALID - BLANK ASSUMED.	You entered a letter or digit, other than a P, B, L, or R, in the Data Format Field (Column 43).	The compiler ignores your entry and assumes you left it blank. Enter the correct type of numeric field.
319	W	FIELD SIZE OF 1 NOT ALLOWED WITH L OR R SPECIFIED IN COLUMN 43 - 2 ASSUMED.	You specified a field size of 1 in the Entry Length Field (Col. 40-42) with an L or R format in the Data Format Field (Col. 43).	The compiler ignores your entry and assumes you specified a field size of 2 characters. Specify a field size of at least 2 characters.
320	T	FIELD SIZE (COLUMNS 40-42) BLANK OR INVALID - 1 ASSUMED	You entered an invalid field size or left the Entry Length Field (Col. 40-42) blank.	The compiler ignores your entry and assumes you specified a field size of 1 character. Enter valid numbers, right-adjusted, with no embedded blanks.

Table 3-9. RPG File Extension (E) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
321	W	DECIMAL POSITIONS (COLUMN 44) INVALID - ASSUME NUMERIC WITH ZERO DECIMAL POSITIONS.	You entered an invalid number of digit positions to the right of the decimal point in the Decimal Positions Field (Col. 44).	The compiler ignores your entry and assumes a numeric table with zero decimal positions. Enter a digit 0-9, in this field.
322	W	P, B, L OR R SPECIFIED (COLUMN 43) AND BLANK DECIMAL POSITIONS- ASSUME NUMERIC W/ZERO DECIMALS.	You entered a P, B, L, or R in the Data Format Field (Column 43) and left the Decimal Positions Field (Column 44) blank.	The compiler ignores your entry and assumes a numeric table with zero decimal positions. Either enter a blank in Column 43 or a digit, 0-9, in Column 44.
323	T	DECIMAL POSITIONS (COLUMN 44) GREATER THAN NUMBER OF DIGITS - ASSUME EQUAL.	You specified more digits to the right of the decimal in the Decimal Positions Field (Col. 44) than there are positions.	The compiler ignores your entry and assumes that the number of decimal positions equals the number of digit positions. Change either the decimal positions or the number of digits, and re-compile.
324	W	SEQUENCE (COLUMN 45) NOT BLANK, A OR D - A ASSUMED.	You entered a letter or digit, other than an A or D, in the Table/Array Sequence Field (Column 45).	The compiler ignores your entry and assumes you entered an A (for ascending sequence).
325	T	FIELD NAME (COLUMNS 27-32) BLANK OR INVALID - ENTRY IGNORED.	You entered an invalid Table, Array, or Routine Name or left it blank in the Table, Array or Routine Field (Col. 27-32).	The compiler ignores your entry. Enter a valid field name and re-compile.
326	T	BINARY FIELD NOT LENGTH 5 OR 10.	You specified a binary field which isn't either 5 or 10 digits long.	Re-define the field to be either 5 or 10 digits long.
327	T	TO FILE (COLUMNS 19-26) NOT AN OUTPUT FILE - TO FILE IGNORED.	You specified the To File as an Output File in the To Filename Field (Columns 19-26).	The compiler ignores To Filename entry. Enter a valid output file name or blanks, and re-compile.

Table 3-9. RPG File Extension (E) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
328	W	P/B/L/R FIELD (COLUMN 55) INVALID - BLANK ASSUMED.	You entered a letter or digit, other than a P, B, L, or R, in the Data Format Field (Column 55).	The compiler ignores your entry and assumes you left the field blank. Correct this field to the proper field format (P, B, L, or R).
329	W	FIELD SIZE OF 1 NOT ALLOWED WITH L OR R SPECIFIED IN COLUMN 55 - 2 ASSUMED.	You specified a field size of 1 in the Entry Length Field (Col. 52-54) with an L or R format in the Data Format Field (Col. 55).	The compiler ignores your entry and assumes you specified a field size of 2 characters. Enter a field size of at least two positions.
330	T	FIELD SIZE (COLUMNS 52-54) BLANK OR INVALID - 1 ASSUMED.	You entered an invalid field size or left the Entry Length Field (Col. 52-54) blank.	The compiler ignores your entry and assumes you specified a field size of 1 character. Enter valid numeric characters, right-adjusted, with no embedded blanks.
331	T	ALPHA FIELD SIZE GREATER THAN 256 - ASSUME 256.	You entered an alphabetic field size in the Entry Length Field (Col. 40-42 or Col. 52-54) greater than 256 characters.	The compiler ignores your entry and assumes you entered 256 characters. Enter a field size of 256 or less.
332	T	NUMERIC FIELD SIZE GREATER THAN 15 - ASSUME 15.	You entered a numeric field size in the Entry Length Field (Col. 40-42 or Col. 52-54) greater than 15 digits.	The compiler ignores your entry and assumes you entered 15 digits. Either define this field as an alphanumeric field, or change the number of digits to 15 or less.
333	W	DECIMAL POSITIONS (COLUMN 56) INVALID - ASSUME NUMERIC WITH ZERO DECIMAL POSITIONS.	You specified an invalid number of positions to the right of the decimal point in the Decimal Positions Field (Col. 56).	The compiler ignores your entry and assumes numeric data with zero decimal positions. Enter the correct number of decimal positions (0-9, or blank).

Table 3-9. RPG File Extension (E) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
334	W	P, B, L OR R SPECIFIED (COLUMN 55) AND BLANK DECIMAL POSITIONS - ASSUME NUMERIC W/ZERO DECIMALS.	You specified a P, B, L or R in the Data Format Field (Col. 55) and left the Decimal Positions Format Field (Col. 56) blank.	The compiler ignores your entry and assumes a numeric table with zero decimal positions. Either enter a blank in Col. 55 or 0-9 in Col. 56.
335	T	DECIMAL POSITIONS (COLUMN 56) GREATER THAN NUMBER OF DIGITS - ASSUME EQUAL.	You specified more positions to the right of the decimal in the Decimal Positions Field (Col. 56) than there are digits.	The compiler ignores your entry and assumes the number of decimal positions equals the number of digits. Change either the number of decimal positions or the field length.
336	W	SEQUENCE (COLUMN 57) NOT BLANK, A, OR D - A ASSUMED.	You entered a letter or digit, other than an A or D, in the Table/Array Sequence Field (Column 57).	The compiler ignores your entry and assumes you entered an A (for ascending sequence).
337	T	FIELD NAME (COLUMNS 46-51) BLANK OR INVALID - ENTRY IGNORED.	You entered an invalid Table, Array, or Routine Name or left it blank in the Table, Array or Routine Field (Col. 46-51).	Enter the correct name and re-compile.
338	T	TABLE/ARRAY NAME (COLUMNS 46-51) PREVIOUSLY DEFINED - RECORD IGNORED.	You previously used this Table or Array name in the Table/Array Field (Col. 46-51).	The compiler ignores the record entry; change the name and re-compile.
339	W	NO EXTENSION SPECIFICATION FOR FILE WITH E IN COLUMN 39 OF FILE SPECIFICATION.	Your program uses a table, array, chaining file, or RAF, but you omitted the File Extension Specification needed to describe it.	Insert the Extension Specification and re-compile the program.

Table 3-9. RPG File Extension (E) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
340	W	ENTRIES PER RECORD BLANK AND FILENAME SPECIFIED - ASSUME 1.	You didn't specify the number of entries in one record, yet you specified the filename in the Table, Array, or Routine Name Field (Col. 27-32).	The compiler ignores your entry and assumes you specified 1 entry per record. Enter valid numeric characters, right-adjusted, with no embedded blanks.
341	W	EXTENSION SPECIFICATION BLANK - IGNORE RECORD.	You didn't enter filenames in the From Filename Field (Col. 11-18) and the To Filename Field (Col. 19-26).	The compiler ignores the record; specify a From Filename and To Filename.
342	W	ENTRIES PER RECORD GREATER THAN TABLE SIZE - ASSUME ENTRIES REVERSED.	You specified a greater number of entries in one record of the table (Entries Per Record Field, Col. 33-35) than the number of entries in the entire table (Entries Per Table/Array Field, Col. 36-39).	The compiler ignores your entry and assumes the entries are reversed (the table size is greater than the entries per record). Enter the correct number of entries per record and table size, and re-compile.
343	T	FROM FILE RECORD LENGTH NOT LARGE ENOUGH TO HOLD ENTRIES PER RECORD.	You specified a number of entries per record (Col. 33-35) that exceeds the space allotted by the length of the records in the From File.	Re-specify the number of entries per record, and re-compile.
344	T	TO FILE RECORD LENGTH NOT LARGE ENOUGH TO HOLD ENTRIES PER RECORD.	You specified a number of entries per record (Col. 33-35) that exceeds the space allotted by the length of the records in the From File.	Re-specify the number of entries per record, and re-compile.
345	T	TABLE FILE CANNOT BE A SPECIAL FILE.	You specified that a table resides on a SPECIAL file.	Specify a file of a type other than SPECIAL for the table.

Table 3-10. RPG Line Counter (L) Specification Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
401	W	INVALID, MISSING, OR UNDEFINED FILENAME IN COL. 7-14, SPEC IS DROPPED.	You specified a filename in the Filename Field (Col. 7-14) that was invalid or undefined, or you omitted this filename completely.	Include the correct filename and re-compile.
402	W	FILENAME IN COL. 7-14 DOES NOT REFER TO 'L' EXTENSION CODE.	You specified a filename in the Filename Field (Col. 7-14) that is not defined in the File Description Specifications, or you specified it in the File Description but failed to specify L in Col. 39.	Define the filename properly, and re-compile.
403	W	FORM LENGTH ENTRY IN COL. 15-17 INVALID OR GREATER THAN 112.	You specified an invalid Line number or a number greater than 112 in the Line Number Field (Col. 15-17).	The compiler ignores your entry and assumes Line Number 66.
404	W	INVALID OR MISSING ENTRY IN COL. 18-19, ASSUME FL.	You entered characters other than OL or FL, or the digits 01 through 12 in the channel Number/OL/FL Field (Col. 18-19), or left this field blank.	The compiler ignores your entry and assumes you entered FL (for Form Length).
405	W	OVERFLOW LINE ENTRY IN COL. 20-22 INVALID OR GREATER THAN 112.	You entered an invalid overflow line or specified a line number greater than 112 in the Channel Number /OL/FL Field (Col. 20-24).	The compiler assumes Line Number 66. Correct the entry and re-compile.
406	W	INVALID OR MISSING OL ENTRY IN COL. 23-24, ASSUME OL.	You entered characters other than OL or FL, or the digits 01 through 12 in the Channel Number/OL/FL Field (Col. 23-24), or left this field blank.	The compiler assumes OL. Correct the entry and re-compile.
407	W	OVERFLOW LINE IN COL. 20-22 EXCEEDS FORM LENGTH IN COL. 15-17, ASSUME FORM LENGTH.	You specified an overflow line in the Line Number Field (Col. 20-22) that exceeds the form length in the previous Line Number Field (Col. 15-17).	The compiler assumes that the form length line and overflow line are equal.

Table 3-10. RPG Line Counter (L) Specification Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
408	W	LINE NUMBER ENTRY IS INVALID, DROP LINE AND CHANNEL ENTRY.	You specified an erroneous line number.	The compiler ignores your entry.
409	W	CHANNEL NUMBER ENTRY IS INVALID, DROP LINE AND CHANNEL ENTRY.	You specified an erroneous channel number.	The compiler ignores your entry.
410	W	CHANNEL 01 AND/OR CHANNEL 12 IS NOT DEFINED.	You didn't specify channel 01 and/or channel 12.	The compiler assumes channel 1 indicates Line 6 and channel 12 (overflow line) indicates Line 60.
411	W	MULTIPLE LINE COUNTER SPECIFICATION FOR SAME FILE IS DROPPED.	You included more than one line counter specification for the same channel, form length, or overflow line.	The compiler ignores the second line counter specification.
412	W	COLUMNS 25-74 SHOULD BE BLANK.	You entered data in Columns 25-74 when using the Line Number Option of the Line Counter Specifications.	The compiler ignores the entries in Col. 25-74, and assumes you left these columns blank.

Table 3-11. RPG Input Specification (I) Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
501	T	INVALID OR UN-DEFINED FILE-NAME - DISC FILE ASSUMED.	You entered, in the Filename Field (Col. 7-14), an improper filename or a filename that was not defined in the File Description Specifications.	Specify the correct file-name or include a File Description Specification record for the file.
502	T	FILE IS NOT AN INPUT, UPDATE, OR COMBINED FILE - DISC INPUT ASSUMED.	You entered a filename that does not identify an input, update, or combined file.	Correct the File Description Record to indicate an input, update, or combined file.
503	T	AND/OR LINE CANNOT FOLLOW TRAILER OR LOOK-AHEAD.	You specified an AND/OR Line in Col. 14-16 after specifying a Trailer or Look-Ahead record in the Record Indicator/Look-Ahead/Trailer Field (Col. 19-20).	Remove the AND/OR Line.
504	T	AND/OR LINE DOES NOT FOLLOW RECORD IDENTIFICATION LINE.	You did not specify a record to which this AND/OR Line applies.	Enter the first line of the record identification for this record.
505	W	AND/OR LINE FOLLOW LINE WITHOUT RECORD IDENTIFICATION CODES.	You did not include record identification codes in Cols. 21-41 of the previous line.	Enter the record identification codes (C, Z, D) in the previous line.
506	W	AND/OR LINE AND NUMBER/OPTION (COLUMNS 17-18) NOT BLANK.	You entered an AND/OR Line in Col. 14-16 and on the same specification line you entered a Number or Option in the Number of Records Field (Col. 17) or Option Field (Col. 18).	Enter the number of records or option field on a separate specification line from the AND/OR line, then re-compile.
507	W	AND LINE AND RECORD INDICATOR (COLUMNS 19-20) NOT BLANK.	You entered an AND line in Col. 14-16 and on the same specification line you entered a record indicator in the Record Indicator/Look-Ahead/Trailer Field (Col. 19-20).	Enter a record indicator on a separate specification line from the AND line, then re-compile.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
508	W	AND LINE AND STACKER SELECT (COL. 42) NOT BLANK.	You entered an AND Line in Cols. 14-16, and on the same line, you entered a stacker number in Col. 42.	Remove the stacker number from the AND Line and place it on the first record identification line of the AND group.
509	T	TRAILER HEADER DOES NOT CONTAIN ALPHA SEQUENCE OR NUMERIC WITH N.	You specified a trailer record and the previous record identification specification contained a numeric sequence entry, but did not contain N in Col. 17.	On the previous record identification specification, enter N in Col. 17 or specify an alphabetic sequence entry.
510	W	COLS. 17-18, 21-42 NONBLANK FOR TRAILER OR LOOK-AHEAD RCD, OR COLS. 7-16 NONBLANK FOR TRAILER RCD.	You entered data in improper fields in the description of a spread or look-ahead record, or entered the file name and/or group sequence in a spread record description.	Remove the data from all columns that should be blank.
511	T	PREVIOUS LOOK-AHEAD FOR FILE.	You defined more than one Look-Ahead record for a file, but only one is allowed.	Remove one of the look-ahead records (consolidate them).
512	W	LOOK-AHEAD RECORD HAS NON-ALPHA SEQUENCE NUMBER (COLUMNS 15-16).	You specified a numeric sequence for a look-ahead record.	Change the sequence characters (in Cols. 15-16) to alphabetic characters.
513	W	ALPHA SEQUENCE (COLUMNS 15-16) FOLLOWS NUMERIC — ASSUME NUMERIC.	You listed the numeric sequence entries before the alphabetic entries in the Group Sequence Field (Col. 15-16).	The compiler ignores your sequence entry and assumes a numeric sequence. Move the alphabetic sequence specifications so that they come before the numeric sequence specifications.
514	W	OPTION/NUMBER FIELDS (COLUMNS 17-18) NOT BLANK FOR ALPHA SEQUENCE — ASSUME BLANK.	You entered an option in the Option Field (Col. 17) or indicated number of records in the Number of Records Field (Col. 18) and also specified an alphabetic Sequence in the Group Sequence Field (Col. 15-16).	The compiler ignores your entry and assumes you left the Number of Records Field blank. Either change the alphabetic sequence characters (Cols. 25-26) to numeric characters, or set Cols. 17-18 to blank.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
515	W	INVALID SEQUENCE NUMBER (COLUMNS 15-16) - ASSUME ALPHA SEQUENCE.	You entered an invalid sequence number in the Group Sequence Field (Col. 15-16), and the previous sequence characters were alphabetic.	The compiler ignores your sequence number and assumes you entered an alphabetic sequence. Correct the sequence number.
516	W	INVALID SEQUENCE NUMBER (COLUMNS 15-16) - ASSUME NUMERIC SEQUENCE.	You entered an invalid sequence number in the Group Sequence Field (Col. 15-16), and the previous sequence characters were numeric.	The compiler ignores your sequence number and assumes you specified a numeric sequence. Correct the sequence number.
517	T	SEQUENCE (COLUMNS 15-16) NOT ASCENDING - ASSUME ASCENDING SEQUENCE.	Your numeric sequence character group was not higher than the previous sequence number.	The compiler ignores your sequence and assumes ascending sequence. Correct the numeric sequence character group to fall in proper ascending sequence.
518	W	FIRST NUMERIC SEQUENCE NOT 1 - ASSUME 1.	You didn't assign the first sequence as 01 in the Group Sequence Number Field (Col. 15-16).	The compiler ignores your sequence number and assumes you entered 01. Correct the first numeric sequence character group.
519	T	NUMBER FIELD (COLUMN 17) NOT 1 OR N WITH NUMERIC SEQUENCE - ASSUME N.	You entered a character other than an N or 1, in the Number of Records Field (Col. 17) and specified numeric sequencing.	The compiler ignores your entry and assumes you entered an N. Correct the Number of Records entry.
520	W	OPTION FIELD (COLUMN 18) NOT BLANK OR O - ASSUME O.	You entered a character, other than an O, in the Option Field (Col. 18).	The compiler ignores your entry and assumes you entered an O. Correct the Option Field.
521	T	INVALID RECORD IDENTIFICATION INDICATOR.	You used an improper indicator in the Record Indicator Field (Col. 19-20).	Enter in Cols. 19-20, one of the indicators 01-99, H0-H9, L0-L9, LR, MR, OA-OG, OV, 1P.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
522	W	STACKER SELECT (COLUMN 42) NOT BLANK, 1 OR 2 - ASSUME 1.	You entered an improper character in the Stacker Select Field (Col. 42).	The compiler assumes you entered 1. Correct the Stacker Select Field.
523	T	INVALID RECORD IDENTIFICATION CODE POSITION FIELD (COLUMNS 21-24, 28-31, OR 35-38) - ASSUME 1.	You specified invalid numbers or embedded blanks in the Record Identification Code position Field (Col. 21-24, 28-31, or 35-38).	Correct the field to include valid numeric characters, right-adjusted.
524	T	RECORD ID CODE POSITION (COLUMNS 21-24, 28-31, OR 35-38) NOT WITHIN RECORD LENGTH - ASSUME 1.	You specified a record identification code in the Record Identification Code Position Field (Col. 21-24, 28-31, or 35-38) that doesn't fall within the record length defined.	The compiler ignores your entry and assumes you entered a 1 in the Position Field. Correct the Position Field so that it falls within the record length.
525	W	NOT FIELD (COLUMNS 25, 32, OR 39) NOT BLANK OR N - ASSUME N.	You specified a character other than N in the Not Field.	Correct the Not Field to contain Nor blank.
526	W	C/Z/D FIELD (COLUMNS 26, 33, OR 40) NOT C, Z OR D - ASSUME C.	You entered a letter or digit, other than a C, Z, or D, in the C/Z/D Field (Col. 26, 33, or 40).	The compiler ignores your entry and assumes you entered a C. Change the entry to C, Z, or D.
527	W	NO FIELD DESCRIPTIONS FOR PREVIOUS RECORD.	You followed one record description specification with another record description specification, without one or more intervening field description specifications.	This entry is probably valid. However, the compiler issues a warning just in case this may be an AND/OR line or in case you forgot to include field descriptions for the previous record.
528	W	COLUMNS 43-70 NON-BLANK FOR RECORD DESCRIPTION.	You entered data in Columns 43-70 in a record description specification.	The compiler ignores the data in Cols. 43-70. Remove the data from these columns.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
529	T	COLUMN 43 NOT P, B, L, R, 1-9, OR BLANK - ASSUME BLANK.	You entered a character other than a P, B, L, R, or 1-9, in the Data Format Field (Col. 43).	The compiler ignores your entry and assumes you left the field blank. Enter P, B, L, R, 1-9, or blank in Col. 43.
530	T	FROM FIELD LOCATION INVALID - ASSUME 1.	You specified invalid numeric characters or embedded blanks in the From Field Position (Col. 44-47).	The compiler ignores your entry and assumes you entered a 1. Correct the From Field Location to valid numbers, right-adjusted.
531	T	TO FIELD LOCATION INVALID - ASSUME 1.	You specified invalid numeric characters or embedded blanks in the To Field Position (Col. 48-51).	The compiler ignores your entry and assumes you entered a 1. Correct the To Field Location to valid numbers, right-adjusted.
532	T	FROM GREATER THAN TO FIELD LOCATION - ASSUME FIELD LENGTH OF 1.	You specified that the From Field in the From Field Position Field (Col. 44-47) is greater than the To Field in the To Field Position Field (Col. 48-51).	The compiler ignores your entry and assumes the From Field length is 1. Correct the From and/or To Field Locations so that the To Field Location is greater than or equal to the From Field Location.
533	T	FIELD LOCATION NOT WITHIN RECORD LENGTH.	You specified a To Field Location that does not fall within the record length defined for the field.	Either correct the record length for the file, or change the field location so that it falls within the record length.
534	T	DECIMAL POSITIONS (COLUMN 52) NOT BLANK OR 0-9 - ASSUME BLANK.	You entered a character, other than 0-9, in the Decimal Positions Field (Col. 52).	The compiler ignores your entry and assumes you left the field blank. Correct the field to reflect the number of decimal positions desired.
535	T	FIELDNAME (COLUMNS 53-58) BLANK OR INVALID - SPECIFICATION DROPPED.	You entered an invalid field name or left the field blank in the Field Name Field (Col. 53-58).	The compiler ignores this specification. Correct the field name.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
536	T	INVALID INDEX FOR FIELD NAME (COLUMNS 53-58) ASSUME INDEX OF 1.	You entered invalid numeric characters or embedded blanks for index of array named in the Field Name Field (Col. 53-58).	The compiler ignores your index and assumes you entered a 1. Correct the index to a proper numeric character or variable.
537	T	VARIABLE ARRAY INDEX (COLUMNS 53-58) IS NOT NUMERIC VARIABLE.	You specified a value other than a numeric variable for the variable array index in the Field Name Field (Col. 53-58).	Specify a numeric variable with zero decimal positions as the array index.
538	W	VARIABLE ARRAY INDEX (COLUMNS 53-58) DOES NOT HAVE ZERO DECIMAL POSITIONS - ACCEPTED AS IF IT DID.	You specified a variable array index without specifying zero decimal positions for it when you defined it.	The compiler accepts your entry as if you specified zero decimal positions for the index. Re-define the index to have zero decimal positions.
539	T	INDEX CANNOT BE AN ARRAY NAME.	You used an array name as an array index.	Use either a numeric constant or a numeric variable with zero decimal positions as the array index.
540	T	FIELD NAME (COLUMNS 53-58) IS A NON-ALTERABLE FIELD - RECORD IGNORED.	The field named is a previously-defined look-ahead field, or UDAY, UMONTH, UYEAR, or UDATE. These cannot be used on Input Specifications.	Specify a different field name.
541	T	PAGE INVALIDLY REDEFINED - MUST BE NUMERIC WITH ZERO DECIMAL POSITIONS.	You re-defined the PAGE Field (Field Name Field, Col. 53-58) without entering zero in the Decimal Positions Field (Col. 52).	Enter a zero in the Decimal Positions Field (Col. 52) for the field name PAGE, and re-compile.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
542	T	DECIMAL POSITIONS (COLUMN 52) DIFFERS FROM PREVIOUS SPECIFICATION - ASSUME PREVIOUS DEFINITION.	You entered the same field name that was previously defined with different decimal positions in the field (Col. 52).	The compiler ignores your entry and assumes the decimal position is the same as in the previous definition of this field name. Correct one or the other entry so that both are the same.
543	T	FIELD SIZE IS NOT A MULTIPLE OF THE NUMBER OF ELEMENTS - NEXT LOWEST MULTIPLE ASSUMED.	You specified an array name, and the field size allows for several array elements plus a fraction of an array element.	Correct the field size to contain an integral number of array elements.
544	T	ARRAY SIZE EXCEEDED - ASSUME TO END OF ARRAY.	You specified an array name and the field size allows for more array elements than the array was defined to hold.	Correct either the array definition or the number of array elements defined by the field length.
545	T	FIELD SIZE NOT SAME AS PREVIOUSLY DEFINED - ASSUME PREVIOUS DEFINITION.	You specified a field size that wasn't the same as previously defined for this field.	The compiler ignores your entry and assumes the field size is the same as the one previously defined for this field. Correct the size of one or the other fields so that both are the same size.
546	T	FIELD PREVIOUSLY DEFINED AS ALPHA - ASSUME ALPHA.	You defined a field as numeric, but this field was previously defined as alpha-numeric.	The compiler assumes that this is an alpha-numeric field. Correct the type of one or the other so that both fields are the same type.
547	T	FIELD PREVIOUSLY DEFINED AS NUMERIC - ASSUME NUMERIC.	You defined a field as alpha-numeric, but this field was previously-defined as numeric.	Correct the definition of one field or the other so that both fields are the same type.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
548	T	ALPHA FIELD SIZE GREATER THAN 256 - ASSUME 256.	You entered an alphanumeric field size greater than 256 characters; the To Field Location minus the From Field Location plus 1 is greater than 256.	The compiler ignores your entry and assumes you specified 256 characters. Correct the From Field and/or To Field Location to reflect a field length of 256 or less.
549	T	DECIMAL FIELD LENGTH EXCEEDS 15 DIGITS - ASSUME 15.	You entered a decimal field length that exceeds 15 digits.	The compiler ignores your entry and assumes you specified 15 digits. Correct the From Field and/or To Field Location to reflect a digit length of 15 or less.
550	T	DECIMAL POSITIONS EXCEED NUMBER OR DIGITS - ASSUME EQUAL TO DIGITS.	You specified, in the Decimal Positions Field (Cols. 52), a value greater than the total number of digits in the field.	The compiler ignores your entry and assumes the decimal positions are equal to the number of digits. Correct the number of decimal positions or the digit size of the field.
551	T	FIELD RECORD RELATION (COL- UMNS 63-64) INVALID IN- DICATOR - BLANK ASSUMED.	You specified an invalid record-identifying indicator in the Field Record Relation Field (Col. 63-64).	The compiler ignores your entry and assumes you left this field blank. Correct the field record relation entry to reflect a valid indicator (01-99, H0-H9, L0-L9, LR, MR, OA-OG, OV, IP).
552	T	CONTROL LEVEL (COLUMNS 59-60) NOT BLANK OR L1-L9 - ASSUME BLANK.	You specified invalid characters, other than the control level indicators L1-L9, in the Control Level Field (Col. 59-60).	The compiler ignores your entry and assumes you left this field blank. Correct the Control Level Field to contain L1-L9 or blank.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
553	T	CONTROL LEVEL LENGTH DIFFERS FROM PREVIOUS DEFINITION - ASSUME PREVIOUS DEFINITION.	You specified a different control level field length than the length previously defined for this field.	The compiler ignores your entry and assumes you specified the same control level field length as you previously defined. Correct one length or the other so that both are the same.
554	T	CONTROL LEVEL (COLS. 59-60) OR MATCHING FLD (COLS. 61-62) USED W/CHAINED OR DEMAND FILE - BLANK ASSUMED.	You specified a control level indicator in the Control Level Field (Col. 59-60) or a matching-record indicator in the Matching/Chaining Field (Col. 61-62) with a chained or demand file.	The compiler ignores your entry and assumes you omitted the control level indicator or matching record indicator. Change the file designation or leave Cols. 59-62 blank in the Input Specification.
555	T	CONTROL OR MATCHING FIELD (COLUMNS 59-62) USED FOR TRAILER OR LOOKAHEAD RECORD - ASSUME BLANK.	You assigned a control level or matching field indicator to a spread record trailer or a look-ahead record.	The compiler ignores your entry and assumes that you left this field blank. Change these columns to blank.
556	T	INVALID MATCHING OR CHAINING ENTRY - ASSUME BLANK.	You assigned a code other than M1 through M9, C1 through C9, or blank to the Matching/Chaining Code Field (Columns 61-62).	The compiler ignores your entry and assumes that you left this field blank. Change the entry to M1-M9, C1-C9, or blank.
557	T	ARRAY USED FOR MATCHING FIELD - ASSUME NO MATCHING FIELD.	You used an array rather than a data field to test for matching fields.	The compiler assumes that no match occurred. Remove the matching field entry for this record. If this field must be used as a matching field, re-define it with another name and assign M1-M9 to the new field name.

Table 3-11. RPG Input Specification (I) Errors (Continued))

NUMBER	TYPE	MESSAGE	MEANING	ACTION
558	T	FIELD RECORD RELATION PRE- VIOUSLY USED WITH THIS MATCHING OR CONTROL LEVEL - ASSUME PREVIOUS.	You used the same field record relation previously in this record with matching or con- trol level fields.	Either remove these matching/control level indicators, change the field record relation, or move the specification records to a new place.
559	T	MATCHING AL- READY SPECIFIED FOR THIS FIELD RECORD RELATION.	The same matching level (M1-M9) has already been used in this record specifica- tion with the same field record relation (may be a blank).	Change the matching level or the field record relation.
560	T	MATCHING LEVEL LENGTH DIFFERS FROM PREVIOUS DEFINITION - ASSUME PREVIOUS.	The matching field length specified differs from the length previously defined for this field.	The compiler assumes the previous length for this field. Change one field length or the other so that both are the same.
561	W	COMPLETE SET OF MATCHING FIELDS NOT DEFINED FOR LAST GROUP.	When you previously specified matching fields in this pro- gram, you specified more levels of matching fields than the current definition.	Either delete the extra matching levels specified earlier or add levels to the current definition.
562	T	MATCHING OR CHAINING LEVEL (COLUMNS 61-62) NOT VALID - ASSUME BLANK.	You entered characters other than C1-C9, M1-M9, or blank, in the Matching/Chaining Code Field (Columns 61-62).	The compiler ignores entry and assumes you entered blanks. Correct the entry in Cols. 61-62 to be C1-C9, M1-M9, or blanks.
563	T	CHAINING (COL- UMNS 61-62) SPECI- FIED WITH LOOK- AHEAD FIELD - CHAINING IGNORED.	You requested chaining with a look-ahead record.	The compiler ignores your entry and assumes a request for look-ahead. Delete the chaining re- quest from the look-ahead field. Include it in a regular field definition if it is needed.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
564	T	L OR R (COLUMN 43) SPECIFIED WITH CHAINING (COLUMNS 61-62) - CHAINING IGNORED.	You specified a field containing unpacked decimal data with leading or trailing sign for a chaining field, but such a field cannot be used for this purpose.	The compiler ignores your request for chaining. Remove the chaining specification or the L or R. The field may be re-defined as a regular field (with From Location one larger for L or To Location one smaller for R) with no L or R for the field.
565	W	ARRAY SPECIFIED AS CHAINING FIELD - IGNORE CHAINING.	You specified an array rather than a data field as a chaining field.	The compiler ignores your request for chaining. Remove the chaining entry from this record. The field may be re-defined as a regular field (same location but different name) with chaining
566	T	SPLIT CHAINING USED WITH NO CONVERSION ROUTINE.	You did not supply a conversion routine to process a split chaining field for a relative file.	If you wish to use split chaining, supply a conversion routine.
567	T	CHAINING LEVEL (COLUMNS 61-62) ALREADY SPECIFIED FOR THIS FIELD RECORD RELATION.	The same chaining level has already been used in this record specification with the same field record relation.	Delete the chaining level (C1-C9) from this record.
568	T	FIELD RECORD RELATION PREVIOUSLY USED IN THIS RECORD FOR CHAINING.	All chaining fields for one field record relation were not together.	Move the record so that it is among the others of the same field record relation or delete the chaining entry (C1-C9) from this record.
569	W	INVALID PLUS RESULT INDICATOR (COLUMNS 65-66) - ASSUME BLANK.	You entered an improper indicator or illegal characters in the High subfield (Col. 65-66).	The compiler assumes that you left this subfield blank. Enter blanks or a valid indicator (01-99, H0-H9, L0-L9, LR, MR, OA-OG, OV, 1P) in these columns (65-66).

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
570	W	INVALID MINUS RESULT INDICATOR (COL. 67-68) — ASSUME BLANK.	You entered an improper indicator or illegal characters in the Low subfield (Col. 67-68).	The compiler assumes that you left this subfield blank. Enter blanks or a valid indicator (01-99, H0-H9, L0-L9, LR, MR, OA-OG, OV, 1P) in these columns (67-68).
571	W	INVALID BLANK/ZERO RESULT INDICATOR (COLS. 69-70) — ASSUME BLANK.	You entered an improper indicator or illegal characters in the Equal subfield (Col. 69-70).	The compiler assumes that you left this subfield blank. Enter blanks or a valid indicator (01-91, H0-H9, L0-L9, LR, MR, OA-OG, OV, 1P) in these columns (69-70).
572	W	FIELD USED PREVIOUSLY AS INDEX NOT DEFINED AS NUMERIC WITH ZERO.	You used an alphanumeric field or a numeric field containing one or more decimal positions as an array element index.	Re-define the index field to be numeric with zero decimal positions.
573	T	TABLE USED AS INPUT FIELD.	You specified a table name in the Field Name Field (Col. 53-58).	Delete the reference to the table from the Input Specification.
574	T	MATCHING OR CONTROL LEVEL WITH BLANK FIELD RELATION MUST BE SPECIFIED FIRST.	You specified matching or control-level fields with a field record relation indicator before the current one (which has a blank field record relation).	Move the blank field record relation specification so that it comes before those that specify an indicator.
575	T	FIRST INPUT SPECIFICATION DOES NOT HAVE FILE NAME.	You omitted the file name from the Filename Field (Cols. 7-14) of your first Input Specification Record, or entered a field description with no preceding record description.	Include a file name with the first input specification record.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
576	T	FILENAME ALREADY USED FOR INPUT SPECIFICATIONS.	You specified a file name that was previously used in a record description in the Input Specifications and included an intervening specification for a different file.	Keep all Input specifications for a file together, without intervening specifications for another file.
577	W	NUMERIC SEQUENCE (COL. 15-16) SPECIFIED FOR CHAINED FILE — ASSUME BLANK.	You specified a numeric group sequence for this chained file, in the Group Sequence Field, where an alphanumeric sequence is required.	The compiler assumes that you specified an alphanumeric sequence. Change the sequence number to alphanumeric characters.
578	W	BLANK RECORD — RECORD IGNORED.	You submitted a blank record within your Input Specification Records.	The compiler ignores this record. Remove this record.
579	T	LOOK-AHEAD OR TRAILER RECORD NOT IN A PRIMARY OR SECONDARY FILE.	You included a look-ahead record or spread record trailer in a file other than a primary or secondary file.	Either change the file designation or remove the look-ahead or trailer records.
580	T	P, B, L, OR R (COL. 43) SPECIFIED FOR ALPHA FIELD — ASSUME BLANK.	You specified in the Data Format Field, a numeric format for a field previously defined as alphanumeric.	The compiler assumes that you left the Data Format field blank in this specification. Either change Col. 43 to blank or define this as a numeric field (by entering a digit in the Decimal Positions Field).
581	T	BINARY FIELD LENGTH IS NOT 2 OR 4 — ASSUME UNPACKED NUMERIC FIELD.	You defined an input field length other than 2 or 4 for a binary field; (2 is one word and 4 is two words).	Either correct the field length or change the type of numeric field.
582	T	INDEX SPECIFIED FOR NON-ARRAY — IGNORE INDEX.	You specified an index for a data field that is not an array.	The compiler ignores the index. Either include an array definition (E specification) for this field name, or delete the index.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
583	T	MATCHING RECORD FILE NOT IN SAME SEQUENCE AS LAST.	A file containing matching records is in a different sequence than the last match- ing record file previously specified.	Change the file specifi- cation records (Col. 18) to be all A or all D for files with matching fields.
584	T	INPUT FILE HAS NO INPUT SPECIFI- CATIONS.	You named an input file but failed to specify the required record characteristics.	Include the specifications for the input file or change the file type.
585	T	DIGIT LENGTH OF FIELD IS ZERO — ASSUME 1.	You have specified a numeric field containing no digits, but such fields must contain at least one digit.	The compiler assumes that you specified a one- digit field. Re-define the field to be at least one digit long; (fields with L or R in Col 43 must be at least 2 bytes long to have 1 digit).
586	T	CHAINING CODE AND FILE NOT SPECIFIED ON EX- TENSION SPECS — IGNORE CHAINING.	You failed to specify a chaining field code (in Cols. 9-10) and/or chaining file name (in Cols. 11-18) of the File Extension Specifications, even though you have de- fined such a file in the Input Specifications.	Either correct the File Extension Specifications or delete the chaining entries from the Input Specifications.
587	W	ARRAY USED FOR LEVEL FIELD — ASSUME NOT A LEVEL FIELD.	You specified an array name in the Control Level Field (Cols. 59-60), but a field name is required.	The compiler assumes that you left the Control Level Field blank. Change the Control Level Field to blanks. If this field must be a control field, re-define it with a new field name and include the chaining level.
588	T	LOOK-AHEAD FIELD PREVIOUSLY DE- FINED — RECORD IGNORED.	You defined a look-ahead field that has already been defined.	The compiler ignores the record. Re-name this field or delete the record.

Table 3-11. RPG Input Specification (I) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
589	W	CHAINING FIELD NUMERIC BUT ALPHA KEYS SPECIFIED ON FILE SPEC.	You specified a numeric chaining field in conflict with alphanumeric searching keys on the IMAGE File.	Either change the field type or the record address type (Col. 31) of the File Description Specification.
590	W	CHAINING FIELD LENGTH NOT SAME AS KEY FIELD LENGTH FROM FILE SPEC.	You specified different lengths for the Chaining and key fields; these must be the same.	Either re-define the chaining field length, the key length, or include a conversion routine.

Table 3-12. RPG Calculation Specification (C) Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
601	T	INVALID CONTROL LEVEL IN COL. 7-8, ASSUME LATEST LEVEL.	You entered an indicator other than L0-L9, or LR in the Control Level Field (Cols. 7-8).	The compiler assumes that you intended the latest-level indicator. Correct the control level and re-compile.
602	W	AN/OR LINE OUT OF ORDER OR INVALID, IGNORE AN/OR LINE.	You entered an AN and/or OR Line, and the preceding line has an entry in the Operation Field or the preceding line did not have an entry in the Indicator Field.	The compiler ignores this line. Put AN/OR Line in proper sequence.
603	W	MORE THAN 7 AN/OR LINES, IGNORE ENTIRE GROUP.	You entered a total of more than seven AN and/or OR lines in one grouping, which is not permitted.	The compiler ignores the entire grouping. Change program so that there are no more than seven AN/OR Lines.
604	W	'AN' OR 'OR' NOT SPECIFIED IN COL. 7-8, IGNORE GROUP.	The statement before this AN/OR record had conditioning indicators, but no operation was specified.	The compiler ignores the entire group. Put operator in previous statement or include AN/OR on this record.
605	W	OPERATION NOT RECOGNIZED.	You entered an illegal or undefined operation code in the Operation Field (Cols. 28-32).	The compiler ignores this operation request. Correct the operation code and re-compile.
606	W	'NOT' ENTRY IN COL. 9, 12 OR 15 NOT N OR BLANK, ASSUME N.	You entered a character other than N or blank in the Not Subfield (Col. 9, 12, or 15).	The compiler assumes that you entered N.
607	W	INVALID OPERATION INDICATOR, IGNORE INDICATOR GROUP.	You entered an invalid operation indicator in the Indicators Field (Cols. 9-17).	The compiler ignores the indicators and performs the operation in any event. Correct the indicator and re-compile.
608	W	INDICATOR MISSING FOR 'NOT' IN COL. 9, 12 OR 15, IGNORE NOT.	You entered an N (for Not) in Columns 9, 12, or 15, but failed to specify an operation indicator in the following column.	The compiler ignores the N entry.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
609	W	INVALID RESULT- ING INDICATOR, IGNORE INDICATOR GROUP.	You entered an improper indi- cator in the Resulting Indi- cators Field (Cols. 54-59).	The compiler ignores this indicator and all others in the group to which it belongs. Correct the indi- cator and re-compile.
610	W	INVALID RESULT FIELD ENTRY IN COL. 43-46.	You entered an improper name in the Result Field (Cols. 43-46).	The compiler ignores the operation associated with this entry. Correct the Result Field name so that it begins with a letter (A-Z) or #, \$, or @ followed by alphanumeric characters or #, \$, or @.
611	W	INVALID FACTOR 1 ENTRY IN COL. 18-27.	You entered an improper name, label, or literal in the Factor 1 Field (Cols. 18-27).	The compiler ignores this operation. Correct Factor 1 so that it reflects a proper field name (see Error Message No. 610) or a literal.
612	W	INVALID FACTOR 2 ENTRY IN COL. 33-42.	You entered an improper name, label, or literal in the Factor 2 Field (Cols. 33-42).	The compiler ignores this operation. Correct Factor 2 so that it reflects a proper field name (see Error Message No. 610) or a literal.
613	W	INVALID INDEX IN RESULT FIELD (COL. 43-48).	You specified an indexed array in the Result Field, but failed to use a proper index.	The compiler assumes the index value to be 1. Cor- rect the index so that it is a valid field name (see Error Message No. 610) that reflects a numeric field with zero decimal positions, or a numeric unsigned literal with no decimal point.
614	W	INVALID INDEX IN FACTOR 1 (COL. 18-27).	You specified an indexed array in the Factor 1 Field, but failed to use a proper index.	The compiler assumes the index value to be 1. Cor- rect the error as in Error Message No. 613.
615	W	INVALID INDEX IN FACTOR 2 (COL. 33-42).	You specified an indexed array in the Factor 2 Field, but failed to use a proper index.	The compiler assumes the index value to be 1. Cor- rect the error as in Error Message No. 613.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
616	T	INVALID FILE NAME ENTRY FOR FACTOR 2 (COL. 33-42).	You entered an improper file name in the Factor 2 Field.	The compiler ignores the operation. Correct the file name so that it appears as defined in the File Description Specifications.
617	W	INVALID RESULT FIELD LENGTH ENTRY IN COL. 49-51.	You entered a value other than 1 through 256 in the Field Length Field.	The compiler ignores the field length entry. Enter valid numeric characters for the Result Field length, right-adjusted, without embedded blanks.
618	W	INVALID DECIMAL POSITIONS ENTRY IN COL. 52.	You entered a value other than 0 through 9 in the Decimal Positions Field.	The compiler assumes zero decimal positions. Enter a digit 0-9 in Col. 52.
619	W	RESULT FIELD LENGTH MISSING BUT DEC POS SPECIFIED. IGNORE DEC POS.	You specified the appropriate number of decimal positions for the Result Field, but neglected to specify the field length.	The compiler ignores the decimal positions entry, as if you specified no decimal positions. Enter a valid field length, or leave the Decimal Positions Field blank.
620	W	HALF ADJUST ENTRY IN COL. 53 NOT H OR BLANK, ASSUME H.	You entered a character other than H or a blank in the Half-Adjust Field, which is illegal.	The compiler assumes that you entered H, specifying Half-Adjust.
621	W	FIELD ATTRIBUTE NOT SAME AS PREV DEFN, USE PREV DEFN.	You assigned to a field a different length or number of decimal positions than that previously assigned to the field.	The compiler uses the previous definition for the field. Correct the field attributes of the incorrect statement.
622	W	RESULT FIELD HAS INDEX BUT NOT ARRAY NAME, IGNORE INDEX.	You entered an array index in the Result Field but did not specify an array name.	The compiler ignores the array index. Remove the index, define the field name as an array on a File Extension Specification or use a proper array name.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
623	T	FILE NAME IN FACTOR 2 NOT DEFINED BY FILE DESC SPECS.	You entered a file name in the Factor 2 Field (Cols 33-42) that refers to a file not described in the File Description Specifications.	The compiler ignores the operation. Either define this file name on a File Description Specification, or use a proper file name.
625	W	RESULT FIELD IS MISSING (COL. 43-48).	You omitted the Result Field from an operation that requires this field.	The compiler ignores the operation. Enter the Result Field Wanted, and re-compile.
626	W	FACTOR 1 IS MISSING (COL. 18-27).	You omitted Factor 1 from an operation that requires it.	The compiler ignores the operation. Enter Factor 1 and re-compile the job.
627	W	FACTOR 2 IS MISSING (COL. 33-42).	You omitted Factor 2 from an operation that requires it.	The compiler ignores the operation. Enter Factor 2 and re-compile the job.
628	W	A RESULTING INDICATOR MUST BE SPECIFIED FOR THIS OPER.	You failed to specify a Resulting Indicator (in Cols. 54-59) for an operation that requires this indicator.	The compiler ignores the operation. Specify a Resulting Indicator and re-submit the job.
629	W	MISSING AN/OR LINE, IGNORE OPERATION INDICATOR GROUP.	You did not specify the required AN or OR Line for a group of more than three indicators that applies to this operation.	The compiler ignores the indicator group and performs the operation under any condition. Either give the previous statement an operator or include an AN/OR record.
630	W	MISSING ENDSR STATEMENT, ASSUME ENDSR.	You omitted the ENDSR operation from an internal subroutine.	The compiler assumes that an ENDSR statement follows the last statement with SR in the Control Level Field.
631	W	OPERATION INDICATORS MISSING ON AN/OR LINE.	You entered AN or OR in Cols. 7-8, but did not specify any indicators in the Indicators Field (Cols. 9-17).	The compiler uses the indicators specified in the preceding lines.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
632	W	INDICATORS IN COL. 9-17 NOT ALLOWED FOR THIS OPERATION, ASSUME BLANK.	You entered one or more indicators in Cols. 9-17, but this operation must not be conditioned with indicators.	The compiler assumes that you left Cols. 9-17 blank, and performs the operation under all conditions.
633	W	INDICATORS IN COL. 54-59 NOT ALLOWED FOR THIS OPERATION, ASSUME BLANK.	You entered one or more indicators in the Resulting Indicators Field, but such indicators are not permitted for this operation.	The compiler assumes that you left the Resulting Indicators Field Blank.
634	W	RESULT FIELD SHOULD BE BLANK FOR THIS OPER, ASSUME BLANK.	You entered a field name in the Result Field, which should remain blank for this operation.	The compiler assumes that you left the Result Field blank.
635	W	FACTOR 1 SHOULD BE BLANK FOR THIS OPER. ASSUME BLANK.	You specified Factor 1 for an operation that prohibits this operand.	The compiler assumes that you left the Factor 1 Field blank.
636	W	FACTOR 2 SHOULD BE BLANK FOR THIS OPER. ASSUME BLANK.	You specified Factor 2 for an operation that prohibits this operand.	The compiler assumes that you left the Factor 2 Field blank.
637	W	FIELD USED AS RESULT IS NON ALTERABLE. IGNORE SPEC.	You specified a look-ahead field, or UDAY, UMONTH, UYEAR, or UDATE as a result field.	The compiler ignores this operation. Specify a different field name and re-compile.
638	W	PAGE FIELD USED AS RESULT FIELD IS ALREADY RE-DEFINED. USE PREV DEFN.	You specified a pre-defined PAGE Field as the Result Field, but attempted to re-define the PAGE field.	The compiler will use the previous definition for the PAGE field.
640	T	GOTO OPERATION MAY NOT BRANCH INTO OR OUT OF SUBROUTINE.	You specified a GOTO operation within a subroutine that transfers to an operation outside that subroutine, or vice-versa.	The compiler ignores the operation. Correct and re-compile.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
641	W	DEC POS ENTRY GREATER THAN FIELD LENGTH, ASSUME ZERO POS.	You defined a field where the number of decimal positions exceeds the length of the field.	The compiler assumes that the field contains no decimal positions. Correct either the number of decimal positions or the entry length, and re-compile.
642	T	NAME REFERENCED SHOULD BE TAG NAME.	You entered a GOTO request that does not reference a TAG operation label. (Fields, tags, and subroutines may not have the same name.)	The compiler ignores the operation. Either re-name the tag or re-name the field or subroutine.
643	T	A SUBROUTINE MAY NOT CALL ITSELF.	You included, within an internal subroutine, an operation that attempts to invoke that subroutine; this type of recursion is illegal.	The compiler ignores the operation. Correct and re-compile.
644	T	BEGSR STATEMENT MISSING. ASSUME BEGSR.	You did not begin an internal subroutine with the BEGSR operation.	The compiler assumes that the first operation in the subroutine is BEGSR. Include a BEGSR operation and re-compile.
645	T	BEGSR OUT OF SE- QUENCE, IGNORE BEGSR LINE.	You included a BEGSR operation within the body of an internal subroutine, after the first operation.	The compiler ignores this BEGSR request. Place BEGSR record in correct order and re-compile.
646	W	DEBUG OPTION NOT SPECIFIED IN COL. 15 OF CONTROL CARD.	You included one or more DEBUG requests in your program but did not specify the Debug option in the Debug Field (Col. 15) of your Control Record Specification.	The compiler does not execute the DEBUG requests.
647	T	FIELD LENGTH AND DEC POS SHOULD BE BLANK, ASSUME BLANK.	You entered the name of a previously-defined table or array in the Result Field, and also specified entries in the Field Length and/or Decimal Positions Field.	The compiler assumes that the Field Length and Decimal Positions Fields are blank.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
648	W	DEC POS ENTRY (COL. 52) SHOULD BE BLANK, ASSUME BLANK.	You specified a decimal position that should not be specified.	The compiler ignores this specification.
649	W	HALF ADJUST ENTRY (COL. 53) SHOULD BE BLANK, ASSUME BLANK.	You specified a half-adjust that should not be specified.	The compiler ignores this specification.
650	W	BEGSR STATEMENT SHOULD HAVE SR IN COL. 7-8. ASSUME SR.	You specified a BEGSR operation that did not include SR in Cols. 7-8.	The compiler assumes that you entered SR in these columns.
651	W	FIELD LENGTH OVER 256 FOR ALPHANUMERIC OR OVER 15 FOR NUMERIC.	You specified a field length that exceeds the maximum length allowed for the Result Field (Cols. 29-51).	The specification is ignored. Re-define the field length and re-compile.
652	W	OPERATOR NOT IMPLEMENTED ON THIS VERSION OF RPG.	You entered an operation code (in Cols. 28-32) that cannot be executed with this version of the compiler.	The compiler ignores this specification.
653	W	PRECEDING OPERATOR WAS NOT A DIV.	You specified an MVR (move remainder) operation that was not immediately preceded by a DIV (divide) operation.	The compiler ignores this MVR operation. Enter MVR immediately following the DIV operation, and re-compile.
654	T	DUPLICATE TAG NAME	You assigned the same label to two or more TAG operations.	The compiler ignores the second TAG specification. Change one of the TAG labels and re-compile.
655	T	DUPLICATE SUBROUTINE NAME.	You assigned the same name to two or more subroutines.	The rest of the subroutine is compiled. Change one of the subroutine names and re-compile.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
656	T	SYMBOL NOT DEFINED.	You referenced the name of a data area or label of an operation that is not defined in your program.	Define the symbol by naming it in a result field with a defined length, by specifying it as a field name on Input Specifications, or by defining it as an array. Re-compile the program.
657	W	RESULT FIELD SHOULD BE ALPHANUMERIC FOR THIS OPERATOR.	You used a numeric field for the Result Field (Cols. 43-48), which should be alphanumeric for this operator.	The compiler uses the field as specified. Change the Result Field type and re-compile.
658	W	FIELD 1 SHOULD BE ALPHANUMERIC FOR THIS OPERATOR.	You used a numeric field for Factor 1 (Cols. 18-27), which should be alphanumeric for this operator.	The compiler uses the field as specified. Change the Factor 1 type and re-compile.
659	W	FIELD 2 SHOULD BE ALPHANUMERIC FOR THIS OPERATOR.	You used a numeric field for Factor 2 (Cols. 33-42), which should be alphanumeric for this operator.	The compiler uses the field as specified. Change the Factor 2 type and re-compile.
660	W	FIELD 2 SHOULD BE THE SAME TYPE AS FIELD 1.	You specified a different data format for Factor 1 than for Factor 2, which is illegal for this operation.	The compiler uses the field as specified. Change either the Factor 1 or Factor 2 type and re-compile.
661	W	RESULT FIELD SHOULD BE NUMERIC FOR THIS OPERATOR.	You used an alphanumeric field for the Result Field (Cols. 43-48), when a numeric field was required.	The compiler uses the field as specified. Change the Result Field type and re-compile.
662	W	FIELD 1 SHOULD BE NUMERIC FOR THIS OPERATOR.	You specified an alphanumeric field for Factor 1 (Cols. 18-27), when a numeric field was required.	The compiler uses the field as specified. Change the Factor 1 type and re-compile.
663	W	FIELD 2 SHOULD BE NUMERIC FOR THIS OPERATOR.	You specified an alphanumeric field for Factor 2 (Cols. 33-42), when a numeric field was required.	The compiler uses the field as specified. Change the Factor 2 type and re-compile.

Table 3-12. RPG Calculation Specification (C) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
664	W	RESULTING INDICATOR REQUIRED IN COL. 54-55; ASSUME H0.	You did not enter the required indicator in the Resulting Indicator Field (Cols. 54-55).	The compiler assumes that you entered the H0 indicator.
665	W	RESULTING INDICATOR REQUIRED IN COL. 58-59; ASSUME H0.	You did not enter the required indicator in the Resulting Indicator Field (Cols. 56-58).	The compiler assumes that you entered the H0 indicator.
666	W	RESULTING INDICATOR REQUIRED IN COL. 56-57; ASSUME H0.	You did not enter the required indicator in the Resulting Indicator Field (Cols. 56-58).	The compiler assumes that you entered the H0 indicator.
667	W	ILLEGAL I/O MODE IN IMAGE FILE.	You specified an operation that is incompatible with the Input/Output mode.	The compiler ignores the operation. Correct and re-compile.
668	W	INCOMPATIBLE FIELD LENGTH.	You specified a field length that was different from the Key Length specified in the File Description Specifications. (If packed decimal keys are used, the key field length is the number of digits divided by 2 plus 1.)	The length specified in the File Description Specifications is used. Change either the key length in the File Description Specification, or the Factor 1 field length.
669	T	FILE SPECIFIED IN FACTOR 2 NOT AN INDEXED DEMAND FILE.	You requested a SETLL operation on a file that is not a Demand file.	Change the file type to a Demand file.
670	W	FILE BEING READ IS NOT A DEMAND FILE.	You used the READ command for a file that was not a Demand file.	If you wish to ignore this warning, Demand reads are intermixed with all other accesses of the file. Otherwise change the specification to reflect a Demand file.
671	T	CURRENT FIELD USE INCONSISTENT WITH PREVIOUS USE.	You either used an alphanumeric field as a numeric field, or vice-versa.	Change specifications to make all references consistent.

Table 3-13. RPG Output Specification (O) Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
701	T	INVALID FILENAME IN COL. 7-14, SPEC IS DROPPED.	You referenced the name of an undefined file in the Filename Field (Cols 7-14).	Define the file name in the File Description Specifi- cations, or use a different, valid file name in the Out- put Specifications, and re-compile.
702	T	AND OR OR LINE NOT PRECEDED BY RECORD DESCRIP- TION.	You entered an AND or OR Line that was not preceded by an entry that describes the record to which that line should apply.	Enter a record description specification before this AND/OR Line, and re- compile.
703	T	NO RECORD DE- SCRIPTION ENTRIES DEFINED YET.	You did not specify a record description as the first item in your Output Specification.	Define a valid record de- scription and re-compile.
704	W	INVALID ENTRIES IN COL 32-74 FOR A RECORD.	You entered field description information in a record- description specification.	The compiler assumes Col. 32-74 are blank. Correct the record description specification and re- compile.
705	W	INVALID ENTRIES IN COL 7-22 FOR A FIELD.	You entered record descrip- tion information in a field description specification.	Correct the field descrip- tion specification and re-compile.
706	T	FILE AND RECORD ENTRIES IN COL 7- 31 AND FIELD ENTRIES IN COLS 32-74 ON SAME LINE.	You entered both a record description and a field de- scription on the same line.	Correct this error and re- compile.
707	T	NO FIELD DESCRIP- TION ENTRIES FOR PREVIOUS RECORD, PREVIOUS RECORD IS DROPPED.	You entered a record descrip- tion specification that was not followed by any field description specifications.	Supply a field description entry and re-compile.
708	T	NO RECORD DE- SCRIPTION ENTRIES FOR THIS FIELD DESCRIPTION ENTRY, SPEC IS DROPPED.	You entered a field descrip- tion specification that was not preceded by any record description specification.	Insert the record descrip- tion entry, and re-compile.

Table 3-13. RPG Output Specification (O) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
709	W	MORE THAN 20 AND/OR LINES, SPEC IS DROPPED.	You exceeded the limit of 20 AND and/or OR lines in an AND/OR grouping.	Delete the appropriate number of AND/OR Lines and re-compile.
710	W	EDIT WORD IN COL 45-70 IS NOT ENCLOSED IN QUOTES, ASSUME BLANK.	You failed to place bounding quotation marks around an edit word.	Add quotation marks to the edit word and re-compile.
711	W	THE NUMBER OF REPLACEABLE CHARACTERS IN THE EDIT WORD IS NOT EQUAL TO THE FIELD TO BE EDITED.	You did not specify an equal number of replaceable characters in the edit word.	The compiler makes the number of characters in the source data equal to the number of replaceable characters in the edit word, either by truncation or padding with zeros. If you desire this result, ignore this warning message.
712	W	INVALID EDIT CODE IN COL. 38.	You entered a character other than X, Y, Z, 1, 2, 3, 4, A, B, C, D, J, K, L, M, or blank in the Edit Code Field (Col. 38).	Enter a correct character and re-compile.
713	W	EDIT CODE INVALID WITH CONSTANT OTHER THAN "*" OR "\$".	You paired the wrong edit code with the constant that appears in Cols. 45-70.	Correct this error and re-compile.
714	W	INVALID FIELD NAME IN COL 32-37.	You used an improper or undefined field name in the Field Name Field (Cols 32-37).	Correct the field name and re-compile.
715	W	INVALID LINE TYPE IN COL 15, ASSUME D.	You used a character other than H, D, T, or E in the Type Field (Col. 15).	Enter the proper character and re-compile.
716	W	INVALID FETCH OVERFLOW IN COL. 16, ASSUME BLANK.	You made an improper entry in the Fetch Overflow Field (Col. 16).	Correct this error and re-compile.
717	W	INVALID SPACE ENTRIES IN COL. 17-18, ASSUME BLANK.	You made an entry other than 0, 1, 2, 3, or blank in the Space Field (Cols. 17-18).	Correct this entry and re-compile.

Table 3-13. RPG Output Specification (O) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
718	W	INVALID SKIP ENTRIES IN COL. 19-22 OR GREATER THAN FORM LENGTH SPECIFIED, ASSUME BLANK.	You made entries other than 01-99, A0-A9, B0-B2, or blank in the Skip Field, (Cols. 19-22) or the entry in this field exceeded the form length specified.	Correct this error and re-compile.
719	W	INVALID SKIP ENTRIES IN COL. 19-22 OR CHANNEL NUMBER GREATER THAN 12, ASSUME BLANK.	You made invalid skip entries, or referred to a channel number greater than 12 in the Skip Field (Cols. 19-22).	Enter the correct skip requests or channel number and re-compile.
720	W	INVALID NOT ENTRY IN COL. 23, 26, OR 29; ASSUME N.	You entered a character other than N or blank in the Not Subfield, (Cols. 23, 26, or 29).	Enter N or blank, and re-compile.
722	W	INVALID OUTPUT INDICATOR IN COL. 24-25, 27-28, 30-31; ASSUME BLANK.	You entered an improper indicator in the Output Indicator Field (Cols. 24-25, 27-28, or 31-31).	Enter the proper indicator and re-compile.
723	W	INVALID FIELD LENGTH FOR Y EDIT CODE.	You specified a field less than 3 or greater than 6 digits long for the Y edit code.	Re-define the field length to 3-6 digits.
724	W	END POSITION SPECIFIED FOR *PLACE <TWICE THAT OF HIGHEST PREVIOUSLY SPECIFIED FIELD, OR INVALID.	You specified, in the End Position Field (Cols. 40-43), a value less than twice the value of the end position of the field described before the *PLACE entry, or you made another invalid entry in the End Position Field.	Correct this error and re-compile.
725	W	END POSITION SPECIFIED FOR *PLACE IS NOT A MULTIPLE OF THAT OF HIGHEST PREVIOUSLY SPECIFIED FIELD.	You specified a value other than an integral multiple of the last end position specified before *PLACE.	Correct this error and re-compile.
726	W	A *PLACE SPECIFICATION MUST NOT BE CONDITIONED BY INDICATORS IN COLS. 23-31.	You entered one or more indicators in the Output Indicators Field of a *PLACE specification.	Delete the indicators in Cols. 23-31, and re-compile.

Table 3-13. RPG Output Specification (O) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
727	W	MISSING OR INCORRECTLY SPECIFIED END POSITION IN COL. 40-43; ASSUME END POSITION 1.	You omitted an entry from the End Position Field (Cols. 40-43), or included an entry other than 1 through 9999 in this field.	Make the proper entry in Cols. 40-43 and re-compile.
728	W	FILE DESCRIBED AS 'ADD' TYPE FILE, EACH RECORD LINE MUST HAVE 'ADD' IN COL. 16-18, ASSUME 'ADD'.	You did not include ADD in Cols. 16-18 of each record line for a file to which new records are to be appended at the end.	Correct this error and re-compile.
729	W	INVALID BLANK AFTER IN COL. 39, ASSUME BLANK.	You attempted to use the Blank After feature in a description of a constant, look-ahead field, or special DATE field.	Remove this entry from the constant or field description, and re-compile.
730	W	INVALID CONSTANT IN COLS. 45-70.	You entered an improperly-defined constant in the Constant or Edit Word Field (Cols. 45-70).	Define the constant properly and re-compile.
731	W	INVALID PACKED/BINARY OUTPUT ENTRY IN COL. 44, ASSUME BLANK.	You made an entry in this field applying to alphanumeric data but such an entry properly applies only to a numeric data, or you entered a character other than P, B, L, R, 2, or 4.	Correct this entry and re-compile.
732	W	OVERFLOW INDICATOR INVALID FOR AN EXCPT RECORD.	You entered an overflow indicator in the Output Indicators Field (Cols. 23-31), in the description of an Exception Record.	Delete the overflow indicator and re-compile.
733	W	FETCH OVERFLOW INVALID WITH OVERFLOW INDICATOR ENTERED IN COL. 23-31; ASSUME NO FETCH.	You entered a request for Fetch Overflow in Col. 16 of a line conditioned by an overflow indicator.	Correct this error and re-compile.

Table 3-13. RPG Output Specification (O) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
734	W	OVERFLOW INDICATOR USED IS NOT ASSIGNED TO THIS FILE.	You attempted to use an overflow indicator in the Output Indicators Field (Cols. 23-31), but this indicator is not assigned to this file.	The compiler assumes that you assigned this indicator to this file. If this is what you intend, ignore this message; otherwise, correct the record and re-compile.
735	W	1P INDICATOR INVALID WITH TOTAL OR EXCPT RECORDS.	You attempted to use the First Page Indicator to condition a total or exception record.	Correct the record description and re-compile.
736	W	FETCH OVERFLOW INVALID WITH 1P INDICATOR, ASSUME NO FETCH OVERFLOW.	You entered a Fetch Overflow request (Col. 16) for a record conditioned with a First Page Indicator.	Correct the error and re-compile.
737	W	1P INDICATOR INVALID FOR A COMBINED FILE.	You specified a First-Page (1P) Indicator for a combined file.	Correct the error and re-compile.
738	W	INVALID INDICATORS USED IN AN 'AND' RELATIONSHIP WITH 1P.	You used an indicator with 1P in an AND relationship.	Correct this error and re-compile.
739	W	END POSITION ENTRY IN COL. 40-43 FOR CONSTANT, EDIT WORD, FIELD, OR ARRAY EXCEEDS RECORD LENGTH.	You specified an end position for an output record that exceeds the maximum length possible for that record — for instance, Position 150 for a record directed to a printer with lines of 132 characters.	Correct the end position to conform with the maximum length possible, and re-compile.
740	W	CONSTANTS IN COL. 45-70 INVALID FOR X, Y, OR Z EDIT CODES.	You did not leave Cols. 45-70 blank for an X, Y, or Z edit code.	Remove the characters in Cols. 45-70 and re-compile.
741	W	DECIMAL POSITIONS INVALID FOR FIELD EDITED BY Y CODE.	You applied the Y edit code to a non-integer numeric field.	Correct this error and re-compile.

Table 3-13. RPG Output Specification (O) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
742	W	NAME OF FIELD TO BE EDITED, BY CODE SPECIFIED IN COL. 38, MISSING.	You specified an edit code in Col. 38 but did not name an edit field name in Cols. 32-37.	Enter a field name in Cols. 32-37, and re-compile.
743	T	INVALID FILE TYPE FOR OUTPUT RECORD.	You directed output to an input or display file.	Correct this error and re-compile.
744	W	T OR E ENTRY IN COL. 15 INVALID FOR COMBINED FILE.	You directed total or exception records to a combined file.	Correct this error and re-compile.
745	W	BLANK AFTER ENTRY IN COL. 39 INVALID WITH RESERVED WORD OTHER THAN PAGE; ASSUME BLANK.	You attempted to use the Blank-After feature with a field named *PLACE, *PRINT, UDATE, UMONTH, UYEAR, UDAY, or *ERROR.	Delete the blank-after request from Col. 39.
746	W	BLANK AFTER SPECIFIED FOR A CONSTANT.	You requested the blanking out of a constant instead of a data field.	Correct this error and re-compile.
747	T	MISSING A RECORD CONDITIONED BY 1P AND FORMS POSITIONING SPECIFIED ON CONTROL CARD.	You conditioned output of a record by the first page indicator and requested forms positioning with this record, but failed to supply the record itself.	Correct this error and re-compile.
748	W	'ADD' IN COL. 16-18 NOT ALLOWED ON AND/OR LINES, ASSUME BLANK.	You entered an ADD request on an AND or OR Line.	Remove the ADD request and re-compile.
749	W	INVALID ENTRY IN COL. 17-22 FOR 'AND' LINE, ASSUME BLANK.	You entered one or more characters in Cols. 17-22 on an AND Line.	Remove the characters from these columns and re-compile.
750	W	INVALID INDEX IN COLS. 32-37.	You used an improper array index in the Field Name Field.	Correct the invalid index and re-compile.

Table 3-13. RPG Output Specification (O) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
751	W	*PRINT MAY BE USED ONLY ONCE FOR EACH RECORD.	You used the *PRINT option more than once in a record description.	Correct this record and re-compile.
752	W	COL. 7-22 AND 38-74 MAY NOT BE USED FOR *PRINT SPECIFICATION.	You placed entries in these columns, which is illegal for the *PRINT option.	Remove these entries or change the *PRINT request, and re-compile.
753	W	ALPHANUMERIC DATA CANNOT BE EDITED.	You attempted to apply an edit code or edit word to alphanumeric data, but these can only be used with numeric information.	Correct this record and re-compile.
754	W	PACKED/BINARY IN COL. 44 CANNOT APPEAR TOGETHER WITH EDIT CODE OR EDIT WORD.	You attempted to apply a Packed/Binary field to an edit code or edit word.	Correct this error and re-compile.
755	W	END POSITION SPECIFIED IN COLS. 40-43 CANNOT CONTAIN THE WHOLE DATA ITEM.	You did not specify an edit field long enough to hold the entire item to be edited.	Specify the proper field length and re-compile.
756	W	PACKED/BINARY IN COL. 44 IS NOT BLANK FOR ALPHANUMERIC DATA, ASSUME BLANK.	You entered a character specifying numeric data (Col. 44) but previously defined the field as alphanumeric.	Correct this error and re-compile.
757	W	TARGET LENGTH SPECIFIED BY PACKED/BINARY IN COL. 44 MAY BE TOO SMALL TO CONTAIN THE DATA.	You may have specified an output field too short to hold the data to be output.	Re-specify the output field length and re-compile.
758	W	THE SKIP IN COLS. 19-22 MUST NOT GO BEYOND THE FORM LENGTH DEFINED ON THE LINE COUNTER SHEET.	You directed the printer carriage to skip to a line beyond the form length but still on the current page.	Correct the skip request and re-compile.

Table 3-13. RPG Output Specification (O) Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
759	W	INVALID ENTRY IN COL. 7-13 FOR 'AND/OR' LINE, ASSUME BLANK.	You entered characters in these columns, but none are allowed for an AND or OR Line.	Remove the characters from Cols. 7-13 and re-compile.
760	T	DEL IN COLS. 16-18 ONLY ALLOWED FOR AN IMAGE UPDATE OR IMAGE CHAINED OUTPUT FILE.	You specified DEL in these columns for the wrong type of file.	Correct this error and re-compile
761	W	'ADD' IN COLS. 16-18, BUT FILE IS NOT 'ADD' TYPE, BLANK IS ASSUMED.	You specified ADD in Cols. 16-18 of the Output Specifications but did not also specify A in the File Addition Field (Col. 66) of the File Description Specifications.	Remove ADD from Cols. 16-18 of the Output Specifications, or specify A in Col. 66 of the File Description Specifications.
762	W	*PRINT FILE NOT 80 BYTES LONG, ASSUME 80.	You specified *PRINT for a file that is not a card or card-image oriented file.	Remove the *PRINT specification, or use a proper card or card-image file.

Table 3-14. RPG Compiler Subsystem Command Errors

NUMBER	TYPE	MESSAGE	MEANING	ACTION
801	W	ERROR IN COMMENT	The set of broken brackets is not correct.	The compiler ignores the command image from the comment on. Correct and re-compile.
802	W	MISSING SYMBOL	The compiler expects a symbol after the \$ in Col. 6, but none was present.	The compiler ignores the rest of the command image, including any incomplete option present. Correct and re-compile.
803	W	ILLEGAL SYMBOL	The compiler encountered an unexpected symbol.	The compiler ignores the symbol. Correct and re-compile.
804	W	MISSION OPTION	The compiler did not encounter an option following the \$CONTROL command.	The compiler ignores the command image. Correct and re-compile.
805	W	MISSING COMMA	You did not include a comma expected as a separator.	The compiler assumes that a comma is present. Correct and re-compile.
806	W	MISSING EQUAL SIGN	You did not include an equal sign expected after the keyword.	The compiler assumes that an equal sign is present. Correct and re-compile.
807	W	ILLEGAL NUMBER	You specified an alphanumeric entry where a numeric entry was required.	The compiler ignores the option currently being scanned. Correct and re-compile.
808	W	NUMBER OUT OF RANGE	A numeric entry is out of range.	The compiler ignores the option currently being scanned. Correct and re-compile.
809	W	STRING TOO LARGE	The concatenation of character substrings exceeds a total of 103 characters.	The string is truncated at 103 characters. Correct and re-compile.
810	W	ILLEGAL STRING	You failed to terminate a character substring with a delimiting quotation mark.	The compiler ignores the string. Correct and re-compile.

Table 3-14. RPG Compiler Subsystem Command Errors (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
811	W	SEQUENCE ERROR IN VOID CARD	A record to be voided by an \$EDIT command is out of proper sequence.	The compiler ignores the \$EDIT command. Correct and re-compile.
812	W	MAXIMUM ERRORS EXCEEDED.	The maximum number of errors allowed by the ERRORS= parameter of the \$CONTROL command (or the default value of 100) has been exceeded.	(Not applicable.)



Table 3-15. Other Errors in RPG Compilation

NUMBER	TYPE	MESSAGE	MEANING	ACTION
901	W	INDICATOR DEFINED BUT NOT REFERENCED.	Your program defined an indicator that was not referenced in any specification.	If you intended to reference this indicator, enter a correct reference and re-compile.
902	W	INDICATOR REFERENCED BUT NOT DEFINED.	Your program referenced an indicator that was not defined in any specification.	Correct the error and re-compile.
903	T	INVALID FILENAME IN COLUMNS 7-14, SPEC DROPPED.	You used an improper file name in the File Name Field for a Table/Array File Name (A) Record.	The compiler ignores this specification.
904	T	CANNOT OPEN FILE SPECIFIED BY 'A' CARD.	The system could not open the file named on a Table/Array File Name (A) Record.	Check to determine the reason for this file error, correct the error, and re-compile.
905	T	CANNOT OPEN TEMPORARY FILE TO PROCESS COMPILE-TIME TABLE.	The compiler cannot open the temporary file for processing a compile-time table.	Check to determine the reason for this file error, correct the error, and re-compile.
906	W	THE FILE DEFINED BY THE 'A' CARD IS EMPTY.	The file named on the Table/Array File Name Record does not contain table or array records.	Supply the compiler with the right file and re-compile your program.
907	T	I/O ERROR OCCURRED DURING READING COMPILE-TIME TABLE.	The system could not read the compile-time table.	Check to determine the reason for this file error, correct it, and re-compile.
908	T	I/O ERROR OCCURRED DURING WRITING COMPILE-TIME TABLE.	An input/output error occurred while the compiler was copying your table/array files to a temporary file; the most probable cause was insufficient disc space remaining.	Check to determine the reason for this file error, correct it, and re-compile.

Table 3-15. Other Errors in RPG Compilation (Continued)

NUMBER	TYPE	MESSAGE	MEANING	ACTION
909	W	NO 'A' CARD FOR TRANSLATION, ALTERNATE COLLATING AND/OR COMPILE-TIME TABLE/ARRAY TABLE.	You did not define a translation file, alternate collating sequence file, or table or array file on the required Table/Array File Name (A) Record.	Supply a Table/Array File Name Record (after the last Output Specification), and re-compile.
910	W	THE FILES SPECIFIED BY THE 'A' CARD ARE NOT ENOUGH TO INITIALIZE COMPILE-TIME TABLES.	The files named on the Table/Array File Name (A) Records do not contain enough entries to fill the Tables/Arrays.	Supply the compiler with a proper file (or files) and re-compile.
911	W	ILLEGAL HEXADECIMAL DIGIT IN COMPILE-TIME TABLE.	You entered an improper hexadecimal value (other than 0-9 or A-F) in a compile-time table — this value does not represent an ASCII character.	The compiler assumes that this character is zero. Correct and re-compile.
912	W	ILLEGAL OCTAL DIGIT IN COMPILE-TIME TABLE.	You entered an improper octal value (other than 0-7) in a compile-time table — this value does not represent an ASCII character.	The compiler assumes that this character is zero. Correct and re-compile.
913	W	THE NAMES IN COLUMNS 1-8 OF A FILE TRANSLATION TABLE ARE NOT THE SAME.	You specified more than one file name in Columns 1-8 of a group of File Translation Records supposedly belonging to the same file.	The compiler assumes that the file names are the same.

Table 3-16. RPG-Detected Errors

NUMBER	MESSAGE	MEANING	ACTION	ERROR RESPONSE	*ERROR CODE	ERROR RESPONSE ENTRIES
1	TERMINAL FILE ERROR	Check MPE error in File Information Display or IMAGE error message.	Determine cause of file error and correct the program.	NONE	F	NONE
2	UNIDENTIFIED RECORD, FILE-NAME = xxxx, RECORD NUMBER = nnn	Record number nnn on the input file named xxxx was not identifiable.	Choose one of the error response options. Either include this record type on Input Specifications or delete record from the file.	56	A	1,2,3,4,5
3	MATCHING RECORD SEQUENCE ERROR, FILENAME = xxxx, RECORD NUMBER = nnn	The matching record with record number = nnn and filename = xxxx was not in sequence.	Choose one of the error response options and correct the record sequence.	57	B	1,2,3,4,5
4	INPUT SEQUENCE ERROR, FILENAME = xxxx, RECORD NUMBER = nnn	Record number nnn on the input file named xxxx was not in proper sequence.	Rearrange the record in the proper sequence and execute the program again.	58	C	1,2,3,4,5
5	INDEX INVALID, LINE NUMBER = nnn, INDEX = nnn	The array index is 0 or greater than the number of array elements.	Choose one of the error response options and correct the program.	59	D	0,2,3,4,5
6	NEGATIVE SQUARE ROOT, LINE NUMBER = nnn	Your program calculated a square root that was a negative value.	Choose one of the error response options and correct the data.	60	E	0,2,3,4,5
7	TABLE/ARRAY SEQUENCE BAD DATA ERROR, OVERFULL FILE = xxxx, LINE NUMBER = nnn, VALUE = xxx	The Table or array on file xxxx with a line number = nnn and value = xxx had a sequence, bad data, or overfull error.	Choose one of the error response options and correct the table or array.	61	H	0,2,3,4,5

Note: Error No. 1, which is a terminal error on a file, is always treated under Error Response No. 5, automatically. There is no provision for requesting a pre-selected response for this error in the Error Response Field.

Table 3-16. RPG-Detected Errors (Continued)

NUMBER	MESSAGE	MEANING	ACTION	ERROR RESPONSE	*ERROR CODE	ERROR RESPONSE ENTRIES
8	RECORD NOT FOUND, FILE-NAME = XXX, STATUS = XXX	The record sought was not found. (STATUS portion appears only for IMAGE file.)	Choose one of the error response options and make the appropriate changes.	62	U	1,2,3,4,5
9	SPECIAL FILE ERROR, FILE-NAME = xxxx, STATUS = xxxx	The special file processing routine returned an error.	Check the error status and make the appropriate changes.	63	J	0,1,2,3,4,5
10	RDEXIT ERROR, FILENAME = xxxx, STATUS = xxxx	The Read Exit file processing routine returned an error.	Choose one of the error response options and make the appropriate changes.	64	J	0,1,2,3,4,5
11	ARITHMETIC OVERFLOW, LINE NUMBER = nnn, VALUE = nnn	The arithmetic result exceeded the number of digits the field could hold.	Correct the program (make the field size larger).	65	N	0,2,3,4,5
12	DIVIDE BY ZERO, LINE NUMBER = nnn	The number was divided by zero.	Choose one of the error response options and correct the program.	66	O	0,2,3,4,5
13	INVALID NUMERICAL DATA, LINE NUMBER = [nnn, VALUE = nnn, RECORD NUMBER = nnn, COLUMN NUMBER = nnn], or [VAL at DB + xxx ($\frac{L}{R}$)]	Either an input field or an alphanumeric field, being moved to a numeric field, contained characters other than numeric characters or embedded blanks.	Choose one of the error response options and correct the program.	67	P	0,2,3,4,5
14	BINARY CONVERSION OVERFLOW, LINE NUMBER = nnn, VALUE = nnn	The binary output field was not large enough to hold the value.	Define a larger binary field.	68	Q	0,2,3,4,5
15	INDICATOR H X IS ON (H0-H9)	These Halt indicators were either set on programmatically or the RPG program has set on H0 because of a file error.	Choose one of the error response options and correct the program.	69	NONE	0,2,3,4,5
16	READ EOF, FILE NAME = xxxx	An attempt was made to read a relative record number past the end of the file.	Choose one of the error response options and correct the program.	70	M	0,2,3,4,5

Table 3-17. IMAGE-Detected Errors in RPG Execution

STATUS	MESSAGE	MEANING	ACTION
-1	FOPEN FAILURE	There may be something wrong with your random-access device. MPE received a non-recoverable error indication.	If error persists, have hardware diagnostics run. If no error is shown, inform HP Customer Engineering.
-2	FCLOSE FAILURE	There may be something wrong with your random-access device. MPE received a non-recoverable error indication.	If error persists, have hardware diagnostics run. If no error is shown, inform HP Customer Engineering.
-3	FREADIR FAILURE	There may be something wrong with your random-access device. MPE received a non-recoverable error indication.	If error persists, have hardware diagnostics run. If no error is shown, inform HP Customer Engineering.
-4	FREADLABEL FAILURE	There may be something wrong with your random-access device. MPE received a non-recoverable error indication.	If error persists, have hardware diagnostics run. If no error is shown, inform HP Customer Engineering.
-5	FWRITEDIR FAILURE	There may be something wrong with your random-access device. MPE received a non-recoverable error indication.	If error persists, have hardware diagnostics run. If no error is shown, inform HP Customer Engineering.
-6	FWRITE LABEL FAILURE	There may be something wrong with your random-access device. MPE received a non-recoverable error indication.	If error persists, have hardware diagnostics run. If no error is shown, inform HP Customer Engineering.
-9	INSUFFICIENT VIRTUAL MEMORY	RPG/3000 cannot obtain the necessary system disc space (virtual memory) to create the table and work space needed to access the data base.	This error may be caused by too many users on the system and may correct itself when some of these users log off the system.
-11	BAD DATA BASE NUMBER	RPG/3000 error.	Inform HP Customer Engineering.
-11	BAD DATA BASE REFERENCE	Special characters other than a period were used in the data base name.	Correct data base name and re-compile.
-12	BAD DATA BASE REFERENCE	More than one period (.) was present in your data base name.	Correct data base name and re-compile.

Table 3-17. IMAGE-Detected Errors in RPG Execution (Continued)

STATUS	MESSAGE	MEANING	ACTION
-12	DATA BASE NOT ENABLED	The data base has been opened, but has not been locked since being opened or since the last successful unlock.	RPG/3000 error — inform HP Customer Engineering.
-21	BAD DATA SET OR DATA ITEM REFERENCE	A data set or data item reference occurs which is either numeric but out of range, an erroneous data set name, or a reference to a data set which is inaccessible to the user.	Correct the data set or data item name on the RPG File Description Specification and re-compile.
-23	DATA SET NOT WRITEABLE	A command was entered attempting to modify a data item in a data set in which you are only allowed to read but not write.	All items in the data set must be writeable, because RPG/3000 always writes an entire record. Modify the definition.
-24	AUTOMATIC MASTER	An attempt was made to write to an automatic master.	Change data set name or redefine master to be manual.
-31	BAD MODE	The MODE parameter is invalid.	RPG/3000 error — inform HP Customer Engineering.
-32	UNABLE TO ACCESS DATA BASE IN THIS MODE	The data base is being used by someone else in another mode, or you cannot access in mode you requested.	If error persists, try changing access mode.
-51	DATA ITEM LIST TOO LONG	The data item list entered exceeds the maximum allowable length for the data item type defined.	RPG/3000 error — inform HP Customer Engineering.
-52	BAD ITEM REFERENCE OR BAD LIST	RPG/3000 error.	RPG/3000 error — inform HP Customer Engineering.
-53	MISSING SEARCH OR SORT ITEM	RPG/3000 error.	RPG/3000 error — inform HP Customer Engineering.
-91	OUTMODED ROOT FILE	The current version of the software to access the data base is not compatible with this root file. The data base root file was created using a different version of the IMAGE/3000 software.	Recreate the data base.
-92	DATA BASE REQUIRES CREATION	The root file of the data base exists, but the file containing the data sets do not.	The IMAGE/3000 program called DBUTIL must be run in CREATE mode prior to accessing the data base.
10	BEGINNING OF FILE	The program encountered the beginning of file (during a backward serial read). (There are no entries before the one previously accessed.)	(Not Applicable)
11	END OF FILE	An end of file was encountered during a forward serial read. (There are no entries beyond the most accessed one.)	(Not Applicable.)

Table 3-17. IMAGE-Detected Errors in RPG Execution (Continued)

STATUS	MESSAGE	MEANING	ACTION
12	DIRECTED BEGIN- NING OF FILE	The data item read has been called for a directed read with a record number less than 1.	Record numbers in IMAGE files begin at 1. Correct program and rerun.
13	DIRECTED END OF FILE	The data item read has been called for a directed read with a record number greater than the capacity of the data set.	Correct so that record numbers fall within the file.
14	BEGINNING OF CHAIN	The data item read has encountered the beginning of chain during a backward chained read.	(Not Applicable.)
15	END OF CHAIN	An end of chain was encountered during a forward chain read.	(Not Applicable.)
16	DATA SET FULL	The data set is full. No more entries can be added to the set. The command terminates.	Delete entries from the data set or redefine it to be larger.
17	NO ENTRY	No entries were located matching the criteria specified in the FIND command.	Delete the key from your search keys or add a record of that key to the file.
20	DATA BASE IS LOCKED BY AN- OTHER PROCESS	Someone else has exclusive use of the data base.	Wait until it is free.
41	ATTEMPTED MODIFI- CATION OF A CRITICAL ITEM	An UPDATE REPLACE command has attempted to change the value of a data item defined as a search item or a sort item.	Correct your program so that it does not modify search items.
42	ATTEMPTED MODIFI- CATION OF A READ- ONLY ITEM	An UPDATE REPLACE command has attempted to modify a data item to which you have only read but not write access.	You must have write access for all items in a record to update them with RPG/3000. Modify data base definition.
43	DUPLICATE SEARCH ITEM VALUE	More than one search item value exists in the master data set.	You cannot add duplicate names to a master data set. Do not add the name.
44	ATTEMPTED DELE- TION OF CHAIN HEAD	An attempt was made to delete a master search item value that still exists as a detail search item value in one or more linked detail data sets.	Delete all detail chain entries before you delete the master.
45	NO SUCH DATA BASE	The referenced data base does not exist in your log-on account.	Correct the data base name or run the program in the account which contains the data base.
48	DATA BASE OPEN IN ANOTHER MODE	The data base is currently being accessed in access mode 1 or 2.	You may access the data base concurrently only if you open in the same mode.

Table 3-17. IMAGE-Detected Errors in RPG Execution (Continued)

STATUS	MESSAGE	MEANING	ACTION
50	SUBSYSTEM BUFFER TOO SMALL	The subsystem buffer is too small for the amount of information.	RPG/3000 error — inform HP Customer Engineering.
51	BAD DATA BASE REFERENCE	Refer to Status -11.	
52	NO SUCH DATA BASE	Refer to Status 45.	
54	BAD DATA BASE REFERENCE	Refer to Status -11.	
57	INSUFFICIENT VIRTUAL MEMORY	Refer to Status -9.	
90	DATA BASE IN USE	The data base is currently being accessed and cannot be opened with access mode 3.	Either re-compile with access mode of 1 or 2, or wait until the data base is available.
91	DATA BASE OPEN EXCLUSIVELY	The data base is currently being accessed by some other user with access mode 3.	You must wait until the other user is finished with the data base.
93	SECURITY VIOLATION	MPE/3000 file security has been violated, as when a user with read access attempts to open a file with write access.	Change open mode to 2 and re-compile, or change data base security definition.
100-199	NO MANUAL ENTRY FOR DETAIL	An attempt was made to add an entry to a detail data set which is linked to one or more master data set(s). The search item value in the detail entry does not exist in the master. Last two digits of status are path number.	An entry with the same search item value must be placed in the master before the detail entry can be entered. Make this correction.
200-299	CHAIN HEAD IS FULL	You have attempted to add a detail data entry to a chain which already contains the maximum allowable (65535) entries. Last two digits of status are path number.	The current entry being added is ignored. You must delete some entries or break the chain into more than one.
300-399	AUTOMATIC MASTER IS FULL	An UPDATE ADD command has attempted to add an entry to an automatic master data set. Last two digits of status are path number.	Redefine and recreate data set so there are more entries available.

Table 3-18. USWITCH Command Errors in RPG

MESSAGE	MEANING	ACTION
I/O ERROR ON \$STDLIST	An attempt to write output to the standard list device failed (for unknown reasons).	The job or session terminates. Determine the reason if possible, and correct and re-run.
I/O ERROR ON \$STDIN	An attempt to read input from the standard input device failed (for unknown reasons).	The job or session terminates. Determine the reason, and correct and re-run.
INVALID INPUT DATA	You included invalid information in a <i>resp</i> subparameter of the USWITCH command.	The batch job terminates. Correct and re-run. (This cannot occur in a session.)
UNEXPECTED END OF FILE	An end-of-file indication was unexpectedly encountered in the input stream during interpretation of a USWITCH command.	The batch job terminates. (A session assumes that undefined indicators are off and continues.) Correct and re-run.

BASIC COMPILER ERROR MESSAGES

The BASIC/3000 Compiler issues messages in case of errors in two circumstances:

- During compilation of a BASIC program.
- During execution of a BASIC program.

The execution or run-time errors are divided into two groups:

- Run-time warning messages.
- Run-time error messages.



COMPILE-TIME ERROR MESSAGES

Error messages which may occur during the compile phase are presented as a WARNING or ERROR in the following format:

$$\left\{ \begin{array}{l} **WARNING \\ **ERROR \end{array} \right\} \text{ message } [: \text{ addendum }]$$

where the *message* is one of those listed in table 3-19, and the *addendum* is additional information given with some error messages to further identify the cause of the error.

RUN-TIME WARNING MESSAGES

The execution of compiled BASIC programs is similar to running a program in the interpreter with the NOWARN option; i.e., most warning messages (such as overflow and underflow warnings) are suppressed. The few warnings given while running compiled programs allow for recovery during input when the input file is interactive with either the output file or \$STDLIST.

The run-time warning messages for the BASIC/3000 Compiler are listed in table 3-20.

RUN-TIME ERROR MESSAGES

When an error is detected during execution, one or more messages are printed to aid the user in isolating the problem. If the BASLIST file and \$STDLIST files are different, the messages are printed on both files.

Run-time error messages include the following information.

- a. A message of the form

****ERROR** *nn*: *message*

where *nn* and *message* are listed below.

- b. For file errors, a File Information Display indicating the characteristics of the file and the exact nature of the file error, (see appendix A).
- c. A stack traceback indicating where the error occurred. Compiler library routines are denoted by prefix S; user library routines by P or G; program modules have no prefix. An example of a stack traceback is shown in figure 3-4.

The run-time error messages for the BASIC/3000 Compiler are listed in table 3-21.

****ERROR 29: ATTEMPT TO ACCESS UNOPENED FILE**

***** STACK DISPLAY *****

S=000727		DL=177732		Z=002057	
Q=000733	P=000724	LCST= S130	STAT=U,1,1,L,0,0,CCE	X=000037	
Q=000652	P=003662	LCST= S126	STAT=U,1,1,L,0,0,CCG	X=000001	
Q=000645	P=000310	LCST= 000	STAT=U,1,1,L,0,0,CCG	X=000000	
Q=000606	P=002745	LCST= S127	STAT=U,1,1,L,0,0,CCL	X=000000	
Q=000431	P=000234	LCST= 000	STAT=U,1,1,L,0,0,CCG	X=000000	

ERR 2 :
ABNORMAL PROGRAM TERMINATION
:

Figure 3-4. Stack Traceback Example

Table 3-19. BASIC/3000 Compiler Compile-Time Error Messages

NO.	MESSAGE	MEANING	ACTION
1	COMPILER OUT OF SPACE	Space requirements for compiling program exceed the available memory.	See your system manager. The compiler must be prepared (:PREP) with a larger MAXDATA, and/or the maximum stack segment size (defined during system configuration) must be expanded.
2	INVALID COMMAND	Not a valid compiler command.	
3	INVALID CHARACTER	Extraneous character in command processing.	
4	USL FILE PREVIOUSLY INITIALIZED	Given when USLINIT parameter is specified but USL file has already been initialized.	
5	USLINIT INVALID AFTER \$COMPILE COMMAND	Initialization of the USL file is invalid after a program has been compiled.	
6	INVALID NUMBER OF LINES	Number of lines cannot be set less than 10 or greater than 9999.	
7	EXPECTED A QUOTE	TITLE string must be delimited by a quote.	
8	START INVALID UNDER SUB-PROGRAM MODE	When SUBPROGRAM is specified, all subsequent START parameters are ignored.	
9	EXPECTED PROGRAM NAME	A program name is expected as the parameter to COMPILE command.	
10	EXPECTED A <	Comments must begin with <<; given if only a single < is detected.	
11	EXPECTED A &	Commands which are continued must have ampersand as last character of the line; given if comma is last character of the line.	
12	EXPECTED A =	LINES, START, and SEGMENT all must be followed by an equal sign.	
13	INVALID SUBPARAMETER	Subparameter must be a name for START= and SEGMENT=.	
14	SUBPARAMETER NAME TOO LONG, TRUNCATED TO 15 CHARACTERS		
15	\$CONTROL PARAMETER EXPECTED		
16	USL FILE INITIALIZED DUE TO BAD CHARACTERISTICS	Invalid directory or directory element. Given on COMPILE if initialization is required but user fails to specify USLINIT.	
17	INVALID \$CONTROL PARAMETER		
18	\$ENTRY INVALID UNDER SUB-PROGRAM MODE	When SUBPROGRAM is specified, all subsequent ENTRY commands are ignored.	

Table 3-19. BASIC/3000 Compiler Compile-Time Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
19	\$TITLE STRING TOO LONG, TRUNCATED TO 104 CHARACTERS		
20	EXTRANEIOUS CHARACTER		
21	UNABLE TO OPEN FASTSAVE FILE	The file may not exist or cannot be opened because of access or security restrictions.	
22	FILE NOT TYPE FASTSAVE	File specified in COMPILE command is not a BASIC fastsave file.	
23	I/O ERROR ON FASTSAVE FILE		
24	BAD FASTSAVE FILE ATTRIBUTES		Recreate the fastsave file through the BASIC/3000 Interpreter.
26	SUBPROGRAM INVALID AFTER \$ENTRY OR START	After ENTRY command or START parameter has been specified, SUBPROGRAM parameter is ignored.	
27	TOO MANY PROGRAM VARIABLES	The number of program variables is limited.	See paragraph 1-10 in BASIC Compiler Reference Manual. Reduce number of variables by "reusing" variables, putting values into arrays, or putting variables in COMMON.
28	INVALID PROGRAM NAME	Program names for COMPILE command must be alphanumeric and begin with alphabetic.	
29	QUALIFIER DELETED	Group and account names and lockword are deleted from program name and not used as part of the RBM symbolic name.	
30	UNABLE TO PROCESS \$ENTRY COMMANDS	A temporary file is necessary and could not be opened.	
31	TOO MANY FUNCTION VARIABLES	Function references too many local and program variables.	See paragraph 1-10 in BASIC Compiler Reference Manual.
32	\$ENTRY NAME TOO LONG, TRUNCATED TO 8 CHARACTERS	ENTRY names cannot exceed eight characters.	
33	CODE SEGMENT > 16K WORDS	The program being compiled creates a code segment which is more than 16,384 words, the largest code segment size possible.	The program should be divided into smaller programs.
34	MORE THAN 16 FILES	A maximum of 16 files is allowed.	
35	USL FILE SPACE EXCEEDED	The space in the USL file was exceeded.	Build the USL file with more records and recompile.
36	INVALID CHARACTER	Messages 36 through 41 refer to PRINT USING strings specified as string expressions. The format string is echoed with a caret character or up-arrow (depending on particular device) indicating the point at which the error was detected.	
37	MISSING GROUP REPLICATOR		
38	REPLICATOR NOT ALLOWED		
39	MISSING RIGHT QUOTE		
40	MISSING NUMBER AFTER APOSTROPHE		
41	INVALID NUMERIC SPECIFICATION		

Table 3-19. BASIC/3000 Compiler Compile-Time Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
42	NUMBER > 255	Messages 42 through 52 refer to PRINT USING strings specified as string expressions. The format string is echoed with a caret character or up-arrow (depending on particular device) indicating the point at which the error was detected.	
43	MISSING D-PART		
44	REPLICATOR > 255		
45	INVALID STRING SPECIFICATION		
46	MISSING LEFT PARENTHESIS IN C-SPECIFICATION		
47	MISSING SEPARATOR		
48	INVALID C-SPECIFICATION		
49	UNBALANCED PARENTHESES		
50	MISSING RIGHT PARENTHESIS		
51	INVALID COMPLEX SPECIFICATION		
52	REPLICATOR = 0		
63	COMMAND FILE RECORD TOO LONG, TRUNCATED TO 80 CHARACTERS	Listfile is not type ASCII, or record size is less than 40 characters, or the compiler could not get write access to listfile.	
64	BAD LIST FILE CHARACTERISTICS		
65	UNABLE TO OPEN LIST FILE		
66	UNABLE TO OPEN COMMAND FILE	Commandfile is not type ASCII or is the \$NULL file, or the compiler could not get read access to the commandfile.	
67	BAD COMMAND FILE CHARACTERISTICS		
68	UNABLE TO OPEN USL FILE		
69	BAD USL FILE CHARACTERISTICS	USL file is not binary, or the file is not type USL, or the record size is not 128 words, or the compiler could not get read and write access to the file.	Recompile into a new USL file. Recreate the file through the BASIC/3000 Interpreter. See your system manager.
70	END OF FILE ON COMMAND FILE	The EXIT command is missing or misplaced in the job stream.	
71	END OF FILE ON USL FILE	The USL file is invalid.	
72	END OF FILE ON FASTSAVE FILE	The fastsave file is invalid.	
73	END OF FILE ON TEMPORARY FILE	This is a compiler error.	
74	END OF FILE ON LIST FILE		
75	I/O ERROR ON COMMAND FILE		
76	I/O ERROR ON USL FILE		
77	I/O ERROR ON TEMPORARY FILE		

Table 3-19. BASIC/3000 Compiler Compile-Time Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
78	I/O ERROR ON LIST FILE	This is a compiler error.	See your system manager.
79	I/O ERROR ON UNKNOWN FILE		
80	UNABLE TO CLOSE COMMAND FILE		
81	UNABLE TO CLOSE USL FILE		
82	UNABLE TO CLOSE FASTSAVE FILE	This is a compiler error.	See your system manager.
83	UNABLE TO CLOSE LIST FILE		
84	UNABLE TO CLOSE UNKNOWN FILE		

Table 3-20. BASIC/3000 Compiler Run-Time Warning Messages

MESSAGE	MEANING	ACTION
BAD INPUT—RETYPE FROM ITEM <i>nn</i>	A string was input to a numeric variable or vice versa; or the form of a numeric item is correct.	
STRING OVERFLOW—RETYPE FROM ITEM <i>nn</i>	The string item exceeds 255 characters.	
> BASIC NOT ALLOWED	The > BASIC option was disabled with BRK function; you are not allowed to use this feature.	
TRANSMISSION ERROR—RE-INPUT LINE	A transmission error occurred during input, causing characters to be lost.	

Table 3-21. BASIC/3000 Compiler Run-Time Error Messages

NO.	MESSAGE	MEANING	ACTION
0	OUT OF DATA	Exhausted the DATA list while attempting to execute a READ or MAT READ statement.	
1	NUMERIC DATA FOR STRING ITEM	The destination variable in a READ or MAT READ statement was string but the next item in the DATA list was numeric.	
2	SUBSTRING DESIGNATOR EXCEEDS LOGICAL LENGTH PLUS ONE	The first substring designator for a destination string must always be less than or equal to string's logical length plus one to ensure a "contiguous" string.	
4	DESTINATION SUBSTRING EXCEEDS PHYSICAL SIZE	The first substring designator for a destination string must be less than or equal to the physical length; and the substring must not extend beyond the physical length.	
5	FIRST SUBSTRING DESIGNATOR $\leq$ ZERO		
6	UNABLE TO FIND CHAIN/ INVOKE PROCEDURE: <i>name</i>	The CHAIN/INVOKE procedure does not exist in the program file or in an SL file.	
7	INVALID CHAIN/INVOKE PROCEDURE NAME	CHAIN/INVOKE name resulting from a string expression did not have the form of a file name: <i>filename [/lockword] [.group[.acct]]</i> Specifically, the name erroneously began with a non-alphabetic or contained non-alphanumeric characters other than a slash (/) or period, or slash or period was followed by non-alphabetic character.	
8	INTEGER OVERFLOW	Integer expression resulted in a value less than -32768 or greater than +32767.	
9	INTEGER DIVIDE BY ZERO		
10	LOG OF NEGATIVE NUMBER		
11	SQR OF NEGATIVE NUMBER		
12	ZERO TO ZERO POWER		
13	ZERO TO INTEGER POWER $\leq$ ZERO		
14	NEGATIVE NUMBER TO REAL POWER	Floating point base (type real or long) to a floating point power (results in type complex value).	
15	STRING EXCEEDS 255 CHARACTERS	Maximum source string length in any expression is 255 characters.	

Table 3-21. BASIC/3000 Compiler Run-Time Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
16	INVALID SUBSTRING DESIGNATOR	For a string variable of the form S\$(f,l) the second substring designator must not be less than the first minus one. For a string variable of the form S\$(f;l) the second substring designator must be greater than or equal to zero.	See system manager.
17	FAILURE TO "CREATE" BASIC.PUB.SYS	The BASIC/3000 Interpreter does not exist in the system.	
18	FAILURE TO "ACTIVATE" BASIC.PUB.SYS	Cannot run the BASIC/3000 Interpreter.	
21	">EOD" INPUT	End of input detected due to ">EOD".	
23	INVALID STRING INPUT	Unbalanced quotes in string read by INPUT statement.	
25	INVALID NUMBER INPUT	Expected numeric constant input but the constant had invalid form, or the destination variable is type integer and the constant is less than -32767 or greater than +32767.	
26	INVALID FILE NUMBER	File number specified in a FILES statement is less than or equal to zero, or exceeds the number of local files.	
27	NEGATIVE FILE SIZE	File limit specified in CREATE statement is negative.	
28	INVALID RECORD SIZE	Record size specified in a CREATE statement is less than 4 or greater than 319.	
29	ATTEMPT TO ACCESS UNOPENED FILE	Reference was made (e.g., in a READ# statement) to a file which is not currently open.	
30	ATTEMPT TO LOCK NON-LOCKABLE FILE	Attempted to execute LOCK# for a file not opened with NL or WL option.	
31	ATTEMPT TO LOCK SECOND FILE	Only one file may be locked (with LOCK#) at a time.	
32	ATTEMPT TO UNLOCK NON-LOCKABLE FILE	Attempted to execute UNLOCK# for a file not opened with NO or WL option.	
33	ADVANCE ATTEMPTED ON NON-BASIC FILE	ADVANCE# may be used only for BASIC formatted files.	
34	UNABLE TO OPEN FILE: TOO MANY FILES	FILES or ASSIGN statement cannot open file because 16 files are currently open.	
35	UNABLE TO OPEN USER FILE: <i>filename</i>	FILES statement cannot open file. A slash following filename indicates the presence of a password, which is not shown.	

Table 3-21. BASIC/3000 Compiler Run-Time Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
36	UPDATE ATTEMPTED ON NON-BASIC FILE	UPDATE# may be used only for BASIC formatted files.	Use larger MAXDATA in :RUN or :PREP command.
37	UNABLE TO OPEN FILE: INSUFFICIENT SPACE FOR BUFFER	FILES or ASSIGN statement cannot open file.	
38	INVALID LINKED-FILE NUMBER	Linked-file number (specified on FILES statement in the form "#integer") exceeds the number of global files.	
39	INSUFFICIENT SPACE FOR COMMON	Unable to expand stack for COMMON area specified in COM statement.	
40	LINPUT# ATTEMPTED ON NON-ASCII FILE	LINPUT# may be used only for ASCII files.	Use larger MAXDATA in :RUN or :PREP command.
41	ATTEMPT TO WRITE ON READ-ONLY FILE		
42	ATTEMPT TO READ FROM WRITE-ONLY FILE		
43	DIRECT ACCESS ATTEMPTED ON SERIAL FILE		
44	END OF FILE	End-of-file detected and no ON END# for that file was in effect.	Destination program must be recompiled.
45	NUMERIC UPDATE ITEM FOR STRING DATA	The expression in the UPDATE# statement was numeric but the next item in the BASIC formatted file was a string.	
46	CHAIN/INVOKE/RUN TO UNDECLARED LABEL	Destination label specified in a CHAIN or INVOKE statement or the PARM= parameter in the :RUN command was not declared in a label list at compile time.	
47	STRING EVALUATES TO INVALID NUMBER IN CONVERT	For CONVERT of string to number, the string expression resulted in a number of invalid form, or the destination variable is type integer and the resulting number is less than -32767 or greater than +32767.	
48	INCOMPATIBLE ARRAY DIMENSIONS	In a MAT statement, the destination array is one-dimensional but the right-hand side results in a two-dimensional with more than one column.	
49	INVALID DAT\$ PARAMETER	The first-character designator is less than 1 or exceeds the last-character designator. Or the last-character designator exceeds 27.	
50	COLUMNS <> ROWS IN MAT MULTIPLY	For MAT multiplication, the multiplicand must have dimensions m-by-p while the multiplier must have dimensions p-by-n.	

BASIC INTERPRETER ERROR MESSAGES

Four types of errors may cause error messages: command errors, statement syntax errors, compile errors, and run errors resulting from program execution.

COMMAND ERRORS

Command error messages are printed following the command that caused the error. If the message is preceded by the word "WARNING:", the command is accepted. Otherwise, the command is dropped and must be entered again. Command error messages are listed in table 3-22.

SYNTAX ERRORS

When a syntax error in a statement is detected, the following message is printed:

ERROR @*integer*

where *integer* is the number of non-blank characters successfully processed before the error was detected. The user may type a carriage return and enter the statement correctly, or he may type any other character to request printing of the syntax error message. If the message is preceded by the word "WARNING:", the line is accepted and need not be re-entered. Syntax error messages are listed in table 3-23.

COMPILE ERRORS

These errors are detected following a RUN command but before execution of the program, or during processing of the SAVE command with the FAST option. If the error message is preceded by the word "WARNING:", compilation continues. If compilation results in no message or only WARNING messages, the program is executed. Otherwise, compilation terminates with no attempt to run the program.

Whenever possible, the line number in which the error occurred will be appended to the message in the form: IN LINE *n* DETECTED IN LINE *n* or DETECTED AT END, whichever is pertinent.

Compile messages are printed during a run if a compile error is detected in a subprogram called by CHAIN or INVOKE. The message is printed before execution of the program. Compile messages are listed in table 3-24.

RUN ERRORS

These errors are detected during program execution and printed as they occur. If the error message is preceded by the word "WARNING:", the run continues. Otherwise, the run terminates. WARNING messages may be suppressed during a run by including the NOWARN parameter in the RUN command (see Section II).

The line number where the error occurred will be appended to most run error messages in the form: IN LINE *n*, where *n* is the line number. If the program is named, this message is followed by IN *programname*.

The WARNING messages for run errors generally are in response to arithmetic errors such as underflow, overflow, division by zero, and so forth. In each of these cases, BASIC/3000 automatically assigns a result. This result is printed as part of the message. For instance, for integer overflow the result is ± 32767 , for all other overflow the result is $\pm 1E77$, for division by zero the result is $\pm 1E77$, and for underflow the result is zero.

KSAM PROCEDURE STATUS

A KSAM procedure called from a BASIC Program returns a status parameter. The status values and their meaning are described in table 3-26.

Table 3-22. BASIC Interpreter Command Error Messages

NO.	MESSAGE	MEANING	ACTION
1	OUT OF MEMORY	Insufficient memory for workspace required by program.	In rare cases, BASIC program is too large and must be segmented. In most cases, there is insufficient virtual memory possibly due to heavy use of system; contact system manager.
2	ILLEGAL INPUT FILE SPECIFICATION	Input file specified in :BASIC command is illegally specified.	Correct according to explanatory message.
3	ILLEGAL COMMAND FILE SPECIFICATION	Command file specified in :BASIC command is illegally specified.	
4	COMMAND FILE NOT TYPE ASCII	Command file in :BASIC command is not an ASCII file.	Be sure that command file used is an ASCII file.
6	TRANSFER OUT OF USER FUNCTION	Caused by GO or RESUME with a label to a statement outside the function being executed when break was taken within function.	Check the label and correct to label of statement within function.
7	ILLEGAL INTEGER	Number is not an integer or exceeds 32767.	Check command syntax and re-enter correctly.
8	ILLEGAL STATEMENT NUMBER	Missing or invalid label or number specified as label is not an integer between 1 and 9999.	Check label and correct.
9	ILLEGAL PARAMETER	Expected parameter incorrectly specified; probably due to incorrect or missing separator.	Ensure that commas and equal signs are correctly used.
10	MISSING PARAMETER	A required parameter or subparameter is missing (for example, record size does not follow RECSIZE=).	Include missing parameter.
11	FILE IS UNAVAILABLE FOR THIS USE	File named in OUT=file name construct cannot be accessed.	Use MPE BUILD or FILE command to create ASCII file.
12	ILLEGAL FILE OR PROGRAM NAME	Name of program or file is specified incorrectly.	A program or file name may be 1 to 8 alphanumeric characters beginning with a letter.



Table 3-22. BASIC Interpreter Command Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
13	EXTRA CHARACTERS	Warning that characters following the command have been ignored; for ABORT and RENUM commands, this error prevents execution of command.	Check command syntax and enter any parameters correctly.
14	NAME TOO LONG — TRUNCATED	Warning that a specified program or file name is greater than 8 characters and has been truncated to the first 8 characters.	None, unless the truncation results in duplicate names, then correct to unique name.
15	END OF COMMAND FILE	End-of-file detected when :EOD, :EOJ, :JOB, :BYE, or :HELLO is read, also if : is typed in response to error message; if input and command files are the same, may be detected on input file.	Do not type : in response to error message. In batch delimit data with > EOD; in session, abort input (and program) with Y ^c , use EXIT command to terminate BASIC.
16	ERROR ATTEMPTING COMMAND INPUT	Transmission error other than end-of-file on command file.	None; probably hardware problem.
17	'&' MUST BE LAST NONBLANK CHARACTER	Characters follow the ampersand (&) on the same line; characters expected only on the next line.	Since extra characters are ignored, no corrective action unless they are significant.
19	STATEMENT NUMBER OVERLAP/OVERFLOW	In RENUMBER command, overlap occurs if new statement number range includes statement numbers already defined; overflow occurs when last statement number > 9999.	Check statement numbers currently in work space and/or numbers specified in RENUMBER; correct numbers so that they are less than 9999 and do not overlap existing numbers.
20	NOTHING DELETED	Warning that DELETE command specified a null set (no statements exist in specified range).	
21	TRACE/BREAK TABLE OVERFLOW	Insufficient space for breakpoint and trace indicators.	Use UNBREAK or UNTRACE to allow for additional breakpoints or trace items.
22	<variable/function name> DOES NOT EXIST	In SHOW or SET command, variable or function was not defined in program, or specified variable is local to a function.	Specify variables local to function in form: <i>function name(variable list)</i> e.g., FNF(A,B)
23	<function name> IS NOT ACTIVE	Function named in SHOW or SET command is not active; that is, it has not been called or RETURN has been executed.	In order to show or set values in function during break, it must be active.
24	<variable name> IS UNDEFINED	Variable named in SHOW has not been assigned a value or value is reserved for this condition (sign bit set, all other bits zero).	Check variable name and specify only variables defined at time of break.
25	<variable name> IS NOT AN ARRAY	Variable named in SHOW is followed by (*) or (*,*) or a subscript, but variable is not an array.	Check name; if correct remove array indicators.
27	<i>variable name</i> IS AN ARRAY	Variable name in SHOW is not followed by (*) or (*,*) or subscript, but variable is an array.	Check name; if correct include array indicators.
28	ILLEGAL NUMBER OF SUBSCRIPTS	Array name is followed by too few or too many subscripts for dimensions of array.	Check array dimensions and correct reference to match.

Table 3-22. BASIC Interpreter Command Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
29	ILLEGAL SUBSCRIPT	Subscript is not specified as positive integer or is greater than physical size of array.	Check subscript and/or array size; correct.
30	ILLEGAL WHILE RUN SUSPENDED	The specified command is not allowed during a break.	Check list of commands allowed during break (section 7 of manual) and use legal command.
31	SUSPENDED RUN ABORTED	Previous run terminated when new RUN command entered in break.	None, informative only.
32	PROGRAM NOT RUNNING	An attempt was made to use a break mode command (such as SHOW) when program is not executing.	None, informative only.
33	STRING LENGTH EXCEEDED	SET command attempted to store string value greater than physical length of string.	Check dimensioned string size; reduce length of string value.
34	ERROR ATTEMPTING FILE READ	Read error occurred during attempt to APPEND program file; (further explanation issued following this message).	Depends on particular error; if end-of-file, file has bad internal characteristics; other errors usually hardware problems, in which case, see system manager.
35	ILLEGAL PROGRAM FILE	RUN or GET command, or INVOKE or CHAIN statement specified program name that is not BASIC program file, or BASIC program file has invalid internal characteristics.	Check file name; you may want to use CAT command to list the program files.
36	EMPTY PROGRAM	SAVE command specified but work space is empty (no program was entered).	
37	PROGRAM NAME IS UNDEFINED	SAVE command specified without name and work space is not named.	Use NAME command to name work space or use SAVE with name parameter.
38	ERROR ATTEMPTING FILE OUTPUT	Write error occurred during attempt to SAVE program (further explanation is issued following this message).	Depends on error; if out of disc space, see account manager.
39	CAN'T APPEND FAST- SAVED PROGRAM	Program named in APPEND command has been saved using FAST option.	GET and SAVE program without FAST option.
40	STATEMENT NUMBER OVERLAP	Last statement number in work space is equal to or greater than first statement of appended program.	Renumber work space or appended program so as to avoid overlap.
41	RUN TERMINATED DUE TO ERRORS	Batch execution of BASIC program contained too many errors to allow continued execution.	Check program code, eliminate as many errors as possible, and try again.
42	ILLEGAL WHILE RUN SUSPENDED – DO YOU WANT TO ABORT?	Command entered during break is not legal at this time.	Respond Y or YES to terminate program and execute command, any other character to continue program ignoring command.
43	ILLEGAL IN BATCH	Command is not permitted in batch mode or from an XEQ or TAPE file.	Check section XII of manual for rules governing batch operation, XEQ, and TAPE commands.
45	TRANSFER INTO USER FUNCTION	Label in GO or RESUME command points to statement within a function, but break occurred outside that function.	Run again specifying break within function or correct label.

Table 3-22. BASIC Interpreter Command Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
46	NO INPUT ACCESS TO COMMAND FILE	Unable to read from command file specified in :BASIC command.	Check :FILE command for file name and positional parameters in :BASIC command.
47	COMMAND FILE RECORDS 132 WILL BE TRUNCATED	Warning that records in command or XEQ file are truncated to 132 characters.	Since only first 132 characters of each record were read, be sure no significant data was truncated; probably only sequence numbers were lost.
48	INPUT FILE NOT TYPE ASCII	Input file specified in :BASIC command is not an ASCII file.	Make sure that input file is ASCII; check that file name specified correctly.
49	NO INPUT ACCESS TO INPUT FILE	Unable to read from input file specified in :BASIC command.	Check :FILE command for file name and positional parameters in :BASIC command.
51	LIST FILE NOT TYPE ASCII	File specified in OUT= construct is not ASCII.	Make sure that list file is type ASCII; check that file name is specified correctly; enter command again.
52	NO OUTPUT ACCESS TO LIST FILE	File specified in OUT= construct cannot be accessed for output.	Check :BUILD or :FILE command.
53	ILLEGAL LIST FILE RECORD SIZE	Warning that specified record size is less than minimum required for command or exceeds file record size. File record size is used.	
54	ERROR ATTEMPTING COMMAND READ – XEQ FILE	Transmission error other than end-of-file in XEQ file.	None; probably hardware problem.
55	XEQ FILE NOT TYPE ASCII	File containing commands in XEQ command is not an ASCII file.	Make sure that command file is type ASCII; check that file name is specified correctly.
56	NO INPUT ACCESS TO XEQ FILE	XEQ command was unable to read command file.	
57	OPTION SPECIFIED TWICE	A command parameter is duplicated.	Remove duplicate parameter.
58	PROGRAM IS RUN-ONLY	This command not allowed because program saved as RUNONLY.	Check manual for list of commands legal with run-only programs.
59	DUPLICATE FILE NAME	SAVE command specified an existing program file.	Change file name to unique name, or use ! with SAVE to purge old file with same name.
60	CAN'T PURGE OLD FILE	SAVE command with ! parameter was unable to purge file from library; usually due to access restrictions for user.	You must have write access to file in order to purge it.
61	CAN'T BE SAVED	Out of space in library or user's access does not permit saving the file specified in SAVE command.	If out of space, ask system manager for disc space; you must have SAVE access to group.
62	STARTED WITHIN FUNCTION	Label specified in RUN command is within a function.	Change label to point to beginning statement outside function.
63	ILLEGAL RUN OUTPUT FILE	File specified in OUT= parameter to RUN command cannot be accessed.	Create disc file with :BUILD command or use MPE :FILE command.

Table 3-22. BASIC Interpreter Command Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
64	RUN OUTPUT FILE NOT TYPE ASCII	File specified in OUT= parameter to RUN command is not type ASCII.	Make sure output file is ASCII; check that file name is specified correctly.
65	NO OUTPUT ACCESS TO RUN OUTPUT FILE	File specified in OUT= parameter to RUN command cannot be written to.	
67	ILLEGAL FILE SPECIFICATION	SAVE file is not on a disc device.	Use :RESET command (MPE) to remove any :FILE command for file name.
68	RESUME LABEL ILLEGAL IF BROKEN BY CONTROL-Y	A label has been specified with RESUME or GO command, but break occurred as a result of Y ^c , not BREAK command.	Enter BREAK with label at next statement, enter GO, when break takes place, use RESUME or GO with label.
69	CAN'T PURGE	File specified in PURGE command cannot be purged.	Correct according to explanatory message following this message.
70	FILE OVERFLOW	Attempt to SPOOL too many lines.	Continue re-entering SPOOL commands until all lines are entered.
71	NO INPUT ACCESS TO 'DUMP' FILE	File specified in DUMP command cannot be read.	
72	NO OUTPUT ACCESS TO 'OUT' FILE	File specified as OUT= file in DUMP command cannot be written to.	
73	'DUMP' FILE NOT BASIC FILE	File specified in DUMP command is not a BASIC formatted file.	To be dumped, file must be BASIC formatted file; check that file name specified correctly.
74	'OUT' FILE NOT TYPE ASCII	File specified as OUT= file in DUMP command must be ASCII.	Make sure specified file is created as ASCII file; check that file name is specified correctly.
75	ILLEGAL FORMAT OR DATA ITEM IN 'DUMP' FILE	Invalid internal characteristics in BASIC formatted file being dumped.	Be sure that specified file is a file created by BASIC interpreter.
76	CAN'T CATALOG	CATALOG command cannot be executed because of invalid file set or insufficient disc space for temporary file.	Refer to explanatory message following this message for corrective action.
77	OUT OF SPACE IN 'MPE' FOR 'FREQ' FILE	Insufficient disc space for temporary file used to record frequency profile of program; requested by FREQ parameter in RUN command.	Ask system or account manager to increase disc space; or delete unneeded files.
79	ILLEGAL RECORD SIZE	Record size specified in CREATE command is less than 4 or exceeds 319 words.	Check CREATE command and correct.
80	OUT OF RANGE + OR - 1E77 USED	Warning that overflow in real number occurred in SET command specification.	
81	OUT OF RANGE + OR - 1E-77 USED	Warning that underflow in real number occurred in SET command specification.	

Table 3-22. BASIC Interpreter Command Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
The following error messages are not associated with an error code.			
	ERROR GETTING <program name>	Read error on program file (further information issued following this message).	Depends on error; if end-of-file, file has bad internal characteristics; other errors are usually hardware problems, for which see system manager.
	OUTPUT FILE UNAVAILABLE	Unable to access List file in :BASIC command because file does not exist or insufficient memory available for buffers.	
	OUTPUT FILE NOT TYPE ASCII	File specified as list file in :BASIC command is not ASCII.	Make sure that list file is type ASCII and run again; check that file name is specified correctly.
	OUTPUT ACCESS TO OUTPUT FILE UNAVAILABLE	File specified as list file in :BASIC command cannot be accessed for output.	Check :BUILD or :FILE command (MPE); check positional parameters in :BASIC command.
	ERROR # number	A user error occurred which does appear in this error catalog.	Look for some kind of command or syntax error. Document error and report to HP representative.

Table 3-23. BASIC Interpreter Syntax Error Messages

NO.	MESSAGE	MEANING	ACTION
1	UNRECOGNIZABLE STATEMENT TYPE	Interpreter cannot recognize statement. Perhaps due to misspelling of keyword or illegal destination variable name.	
3	MISSING EQUAL SIGN	Equal sign used as assignment operator is missing from assignment statement, MAT assignment statement or FOR statement.	Include = following each variable to be assigned a value.
4	ILLEGAL OPERATOR	Operator specified in expression is not a valid BASIC operator.	Check manual for list of legal operators and correct.
5	ILLEGAL SEPARATOR	Character specified is not a comma where comma is expected as separator.	Insert comma between items in list.
6	MISSING 'OF'	Word OF is expected in multibranch GOTO or GOSUB statement.	Include OF if multibranch intended, else delete label list.
7	ILLEGAL VARIABLE NAME	Specified variable is not in legal BASIC/3000 format (i.e., letter alone, letter followed by digit for numeric variable or either of these followed by \$ for string variable).	Specify variable in correct format.
8	MISSING LEFT PARENTHESIS	Missing left parenthesis following function name or array name (in DIM statement).	Include left parenthesis.
9	MISSING RIGHT PARENTHESIS	A left parenthesis has no matching right parenthesis.	Include right parenthesis or delete left parenthesis.

Table 3-23. BASIC Interpreter Syntax Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
10	MISSING COMMA	A comma is expected at this point, for example, following the real part of a complex number.	Re-enter including comma.
11	'END' MUST BE LAST	END specification in file PRINT statement must be at end of print list.	Move END to end of print list.
12	ILLEGAL ITEM IN DATA STATEMENT	An item that is not a constant was encountered in DATA statement.	Numeric or string constants separated by commas are the only items allowed in DATA statement.
13	EXTRA CHARACTERS	Characters follow the end of the statement.	If using XEQ to enter file built by Editor, make sure that file was saved by KEEP with the UN-NUMBERED parameter.
14	ILLEGAL COM NUMBER	A COM block identifier is not a digit between 1 and 9.	Use constant with value between 1 and 9 within parentheses following COM or, for unlabeled common, omit this value.
15	'COM(0)' ILLEGAL	A COM block identifier is zero.	Omit value in parentheses for unlabeled common; for labeled common, use digit between 1 and 9.
16	ILLEGAL PARAMETER	Formal parameter in DEF statement is neither a numeric nor a string variable name.	
17	STATEMENT FOLLOWING THEN/ELSE	No statement or statement label follows THEN or ELSE in IF statement.	Specify statement or label of statement to be executed when IF condition true (THEN) or false (ELSE).
18	NUMERIC VARIABLE MUST FOLLOW TYPE DECLARATION	A type statement (INTEGER, LONG, REAL, COMPLEX) is not followed by numeric variable.	Specify numeric variable or array name after type; if more than one, separated by commas; if array name, include dimensions as in DIM.
19	NUMERIC FUNCTION MUST FOLLOW TYPE DECLARATION	A type declaration in a DEF statement is not followed by a numeric function name.	Enter name of numeric function following type declaration (REAL, INTEGER, LONG, COMPLEX); string functions cannot be typed.
20	MISSING 'TO'	FOR statement does not include word TO.	TO must precede final value expression and follow initial value expression.
21	STRING > 255 CHARACTERS ILLEGAL	A string dimension in a DIM or COM statement is longer than 255 characters.	Reduce string length; break into several strings or a string array.
22	EMPTY INPUT LIST OR ILLEGAL SEPARATOR	Input list in READ, file READ, LINPUT or file LINPUT statement is missing or not separated by commas.	Specify variables to receive input separated by commas; for LINPUT or file LINPUT, only one string variable allowed.
23	ILLEGAL EXPRESSION OR MISSING 'THEN'	In IF statement, expression to be evaluated is not a legal expression or is not followed by THEN.	Specify conditional expression or numeric expression that evaluates to zero or non-zero following IF and followed by THEN.

Table 3-23. BASIC Interpreter Syntax Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
24	ILLEGAL MAT OPERATOR	Operator in MAT assignment statement is not a plus, minus, or a multiply symbol.	Correct operator in statement.
26	MISSING '**'	Missing multiply operator following scalar in MAT scalar multiply.	Insert * in statement.
27	ILLEGAL MAT ASSIGNMENT RIGHT PART	Operand on right-hand side in MAT assignment statement is not an array name or MAT function (such as TRN).	Use correct form for right hand operand.
28	ILLEGAL MAT ASSIGNMENT	Operand on left-hand side of MAT assignment statement is neither a numeric nor string variable name.	Enter correct operand in left-hand side of MAT statement.
29	ILLEGAL STRING MAT INITIALIZATION	A function other than NUL\$ was encountered in MAT string initialization.	String can be initialized with NUL\$ or NUL\$ followed by expression specifying number of elements to initialize.
30	ILLEGAL DUMMY SUBSCRIPT	Dummy subscript other than (*) or (*,*) encountered.	In DEF or COM statement, array dimensions must be specified by (*) or (*,*).
31	ILLEGAL MAT READ OR INPUT ITEM	Item in MAT input statement is not a variable name.	Use variable name for object of MAT input.
32	ILLEGAL FORMAT STRING SPECIFIER	In PRINT USING statement, a character in the format string is not legal.	Check manual for list of legal characters in format string and correct.
33	MISSING SEMICOLON	In file statement (such as PRINT#, ADVANCE#), semicolon is not specified following file number; in PRINT USING, semicolon does not follow label.	Include semicolon separator as indicated.
34	OUT OF RANGE + OR - 1E77 USED	Warning that number exceeds range of machine.	
35	OUT OF RANGE + OR - 1E-77 USED	Warning that number is in the range -1E-77 through 1E-77 (excluding zero).	
49	ILLEGAL STRING NAME	Variable that is not a string name encountered where string expected.	Use string variable (letter optionally followed by digit, followed by \$).
50	MISSING OR ILLEGAL STATEMENT NUMBER	Either no number or number not an integer between 1 and 9999 encountered where statement label expected.	Specify statement label as integer between 1 and 9999.
51	ILLEGAL INTEGER OR STATEMENT NUMBER	Where integer or statement label expected, a non-numeric character or an integer greater than 32767 was encountered.	Enter positive integer less than 32768.
52	ILLEGAL USER FUNCTION NAME	A user function name was encountered that does not begin with FN followed by a letter, or a letter and \$ if a string valued function.	Specify legal function name in DEF statement.

Table 3-23. BASIC Interpreter Syntax Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
53	ILLEGAL PRINT LIST ITEM	An item in a print list (PRINT, file PRINT, or PRINT USING) encountered that is not a numeric or string expression, a print function, or FOR loop.	Specify legal print item in print list; separate by commas or semicolons.
55	ILLEGAL ITEM IN STRING EXPRESSION	An item other than a string, a string variable, or string function encountered where string expression expected.	Specify legal string item.
56	ILLEGAL STRING CONSTANT	String literal does not start with a quote or an apostrophe.	
57	UNCLOSED QUOTE	Left quote has no matching right quote.	Include closing quote or delete initial quote.
58	STRING USED ILLEGALLY IN NUMERIC EXPRESSION	String encountered where only numeric expression legal, possibly due to missing relational operator.	
59	MISSING RELATIONAL OPERATOR	Relational operator (=, <, >, <=, >=, < > or #) expected.	
60	MAY NOT END WITH A COMMA	Item list in PRINT USING statement may not be terminated by a comma.	Remove terminating comma.
61	ILLEGAL PREDEFINED FUNCTION	Specified function is not recognized as a BASIC built-in function.	Check manual (Appendix E) for list of built-in functions and legal arguments; correct.
62	ILLEGAL FILE OR PROCEDURE NAME	A file or procedure name does not begin with an alphabetic character.	Do not use special file name such as \$STDLIST or back reference (*file name) in FILES statement; these are, however, permitted in ASSIGN statement.
63	FILE OR PROCEDURE NAME TOO LONG	A file name longer than 8 characters or procedure name longer than 15 characters was encountered.	Shorten name to legal length.
66	ILLEGAL RESTRICTION	Restriction parameter in ASSIGN statement not a legal restriction.	Enter restriction as RR, WR, WL, NR, or NL.
67	ILLEGAL STATEMENT FOLLOWING THEN/ELSE	Statement following THEN or ELSE in IF statement is not an executable statement, or a statement label, or DO.	Specify executable statement, label, or DO followed by group of statements and terminated by DOEND.
68	ILLEGAL INPUT LIST ITEM	Item in input list of INPUT statement is not a variable, string constant, or FOR loop.	Enter legal item in list, separated by commas if more than one item.
69	ILLEGAL READ ITEM LIST	Item in read list of READ or file READ statement is not a variable or FOR loop.	Enter legal item in list, separated by commas if more than one item.
70	ILLEGAL DESTINATION VARIABLE	Variable to receive result code from execution of statements such as ASSIGN must be simple or subscripted numeric variable.	
71	ILLEGAL MAT STRING ASSIGNMENT	Operand on right-hand side of MAT string assignment statement is neither a string variable name nor function NUL\$.	

Table 3-23. BASIC Interpreter Syntax Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
73	MISSING 'END#'	END# missing from ON END# statement.	Supply END#.
74	ILLEGAL ITEM IN NUMERIC EXPRESSION	An item other than numeric constant, numeric variable or function, or left parenthesis (enclosing numeric expression) was encountered.	
77	STRING CONSTANT > 255 CHARACTERS	String constant encountered containing more than 255 characters.	Reduce string to 255 characters or less.
78	NUMBER OVER 255 AFTER '	Numeric equivalent to string character is greater than 255.	Enter numeric equivalent as apostrophe (') followed by number equivalent to an ASCII character. (See Appendix A.)
79	'\$' MISSING FROM STRING-VALUED PREDEFINED FUNCTION	Name of string function must be followed by \$.	Enter one of the built-in string-valued functions: CHR\$, DAT\$, DEB\$, or UPS\$.
80	PREDEFINED FUNCTION PARAMETER OF WRONG TYPE	An argument in a built-in function is not the type expected for the function.	Check the manual (Appendix E) for a list of built-in functions and their argument types.
81	PREDEFINED FUNCTION HAS TOO MANY PARAMETERS	Too many arguments for this built-in function.	Check the manual (Appendix E) for a list of the functions and their arguments.
82	PREDEFINED FUNCTION HAS TOO FEW ARGUMENTS	Too few arguments for this built-in function.	See action for error 81.
83	ILLEGAL PARAMETER IN 'UND' FUNCTION	Argument in UND function is not a simple or subscripted numeric variable.	Correct argument to simple or subscripted numeric variable.
84	NUMBER OUT OF RANGE	More than 78 digits to the left of decimal point (excluding leading zeroes) or more than 99 digits total used to represent number.	
85	ILLEGAL NUMBER	A number of invalid form was specified (such as missing exponent after E or L), or a zero was specified where a positive integer is expected.	
86	LONG FORM ILLEGAL IN COMPLEX CONSTANT	Long constants found in complex constant.	Correct to complex constant containing two integer or real values separated by a comma and within parentheses.
87	ILLEGAL STATEMENT NUMBER	Statement label is 0 or is greater than 9999.	
88	ILLEGAL TYPE SPECIFIER	Type specification is not INTEGER, REAL, LONG, or COMPLEX.	Use correct keyword for data type.
90	OUT OF MEMORY	Insufficient space for program, possibly due to heavy use of system.	Save existing segment of program with SAVE command; use CHAIN statement to link program segments.

Table 3-24. Pseudo-Compile BASIC Interpreter Error Messages

NO.	MESSAGE	MEANING	ACTION
0	OUT OF MEMORY	Not enough memory to prepare program for execution. May be caused by program having very large arrays or references to files with very large records. May be due to running of contiguous virtual memory when there is a heavy load on the system. May be due to a small maximum stack size specified at system configuration.	Place array in file or reduce size of records in file. If insufficient virtual memory, try running program again. If stack size too small, break program into segments.
1	MORE THAN 16 FILES	More than 16 files specified in FILES statement or in sum of FILES statements in INVOKE sequence.	Reduce number of files specified in FILES statement; use ASSIGN statement to dynamically close files before accessing additional files so that no more than 16 files are open simultaneously.
2	MULTIPLE DEFINITION OF SAME COM	More than one COM block with the same label or more than one unlabeled COM block have been declared.	Check COM statements and provide unique label for duplicate COM block.
3	MISSING SUBSCRIPT SPECIFICATION IN FIRST OCCURRENCE OF COM	The (*) or (*,*) size specification was used in first occurrence of the COM declaration; such specifications are allowed for a currently active COM block.	Include actual dimensions for first occurrence of variables in COM statement.
4	DUPLICATE DECLARATION	The same variable has been declared more than once in the same program.	Check type, COM, and DIM statements for duplicate variable names; remove duplicates.
5	COM APPEARS AFTER OTHER DECLARATION	A COM statement was specified following another declarative statement.	Move COM statements so that they precede all other declarations; it is usually simplest to place COM statements at beginning of program.
6	MORE THAN 909 VARIABLES AND USER FUNCTIONS	The combined total of variable names and user-defined function names in a program is more than 909.	Reduce the number of variable and/or user-defined function names.
7	'FNEND' WITHOUT 'DEF'	An FNEND statement has been encountered to terminate a function for which no DEF statement has been specified.	Include the DEF statement for the function terminated by FNEND or delete the FNEND statement.
8	INCOMPATIBLE ARRAY DIMENSIONALITY	The number of subscripts specified differs from the number of dimensions declared for the array in DIM, COM, type statements through usage.	Check DIM, COM, or type statement for correct number of subscripts, or check prior use of array if dimensioned by default.
9	UNDEFINED ARRAY DIMENSIONALITY	The number of dimensions of an array specified in a MAT statement is unknown because the array was not explicitly declared and was not referenced in a prior statement.	Dimension the array in a DIM, COM, or type statement.
10	UNDEFINED USER FUNCTION	A user-function name has been referenced that was not defined.	Define function with DEF statement.

Table 3-24. Pseudo-Compile BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
11	USER FUNCTION PARAMETER OF WRONG TYPE	A parameter in a function reference is the wrong type for the corresponding formal parameter in the function definition.	For a simple string variable, actual parameter must be string expression or simple string variable; for an array, actual parameter must be an array of same type and dimensions; if a string array, actual parameter must also be string array. If a numeric variable, actual parameter must be numeric expression.
12	USER FUNCTION HAS TOO MANY PARAMETERS	A function reference has more parameters than were defined for the function.	Check function definition for number of parameters and correct function reference or definition so that number corresponds.
13	USER FUNCTION HAS TOO FEW PARAMETERS	A function reference has fewer parameters than were defined for the function.	Check function definition for number of parameters and correct function reference or definition so that number corresponds.
14	NON-ARRAY PARAMETER IN 'ROW' OR 'COL'	Variable specified in ROW or COL function is not an array.	Check variable name; use array name as parameter to ROW or COL.
15	TRANSFER TO NON-EXISTENT STATEMENT	Control has been transferred to a non-existent statement.	Check statement label for accuracy; include statement if omitted.
16	TRANSFER OUT OF USER FUNCTION	Control was transferred either out of a user function or to the DEF statement.	If control transferred to DEF, it passes to line following function end; check GOTO or GOSUB statements and correct.
17	TRANSFER INTO USER FUNCTION	Transfer was made either to an FNEND statement or into a user-defined function.	Both actions are illegal; check label used for transfer and correct.
18	'DOEND' WITHOUT 'DO'	A DOEND statement terminating a DO group does not have a corresponding THEN DO or ELSE DO.	Check the IF statement and correct by matching each DOEND by a DO or omit the DOEND.
19	COM NOT SAME AS FIRST OCCURRENCE	COM declaration in program executed through CHAIN or INVOKE differs from previous COM declaration in the number or type of variables, or number of array dimensions.	Check both COM statements and correct so that variables correspond.
20	'NEXT' WITHOUT 'FOR'	A NEXT statement encountered for which there is no matching FOR statement.	Check NEXT variable and correct if needed; or remove NEXT, or add FOR statement.
21	NO SUCH FILE OR ILLEGAL ACCESS	A file in a FILES statement does not exist, or you are not allowed access to it.	Check file name for accuracy; create access restrictions on file.
22	NO MORE BUFFER SPACE	Insufficient virtual memory in system for system buffers required by file specified in FILES statement.	Wait and try running program again when the system is less busy.
23	FILE PROTECTED BY ANOTHER USER	File specified in FILES statement cannot be opened because another program has opened it with exclusive access.	Try again at a later time; if possible, check with other user accessing file.

Table 3-24. Pseudo-Compile BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
24	READ ONLY FILE	File specified in a FILES statement has been opened by another program; as a result, you have only read access.	If restriction is due to concurrent access, try again, otherwise, do not write to file.
25	LOADING OF 'CALL' PROGRAM FAILED	Procedure called by CALL statement cannot be found in group, public, or system SL.	Make sure that you have created the SL.
26	'FOR' - 'NEXT' VARIABLES DON'T MATCH	The variable in a NEXT statement is not the same as the variable in the corresponding FOR statement.	Check variables and correct so they match.
27	'ELSE' WITHOUT 'IF - THEN'	An ELSE statement is not preceded by an IF - THEN construct.	Check code and either include IF THEN or remove ELSE.
28	INCOMPATIBLE DIMENSIONALITY IN USER FUNCTION REFERENCE	Parameter in a function reference has a different number of dimensions than corresponding parameter in function definition, as indicated by (*) or (*, *).	Check DEF statement parameter list for correct number of dimensions in array.
29	INDIRECT FILE REFERENCE OUT OF BOUNDS	A FILES statement contains a file number specified as # <i>n</i> where <i>n</i> is greater than the total of internal (global) file numbers; usually occurs when program called by INVOKE.	Check total of files opened through FILES statements in calling programs and current program.
30	INTEGER ARGUMENT IN 'INV'	Numeric array in MAT - INV statement was defined as type INTEGER.	Check for INTEGER statement defining array and either remove or use another array.
31	DUPLICATE 'FOR' VARIABLE IN SAME RANGE	The variable in a nested FOR statement is the same as that in an enclosing FOR statement.	Check the variables and change so they are not the same.
32	EXPRESSION ILLEGAL IN 'GOSUB-RETURN'	An expression was included in RETURN statement used as return from GOSUB routine; only allowed in function.	Remove the expression or change subroutine to a function.
33	RETURN EXPRESSION TYPE INCOMPATIBLE WITH 'DEF' TYPE	RETURN statement in function has string expression but function is numeric, or has numeric expression but function is string.	Check function definition and correct RETURN expression so that it corresponds to the function type.
34	REFERENCE TO NON-EXISTENT STATEMENT	Label in RESTORE or PRINT USING statement does not reference existing statement.	Check label and correct or include referenced statement.
35	REFERENCED STATEMENT NOT 'IMAGE'	Label in PRINT USING statement references a statement that is not an IMAGE statement.	Check label and correct; include IMAGE statement if omitted.
36	'REDIM' STRING NOT STRING ARRAY	String specified in REDIM statement is not an array dimensioned in DIM statement.	Check array name; dimension array if correct name used.
37	ARRAYS OF DIFFERENT TYPE IN MAT STATEMENT	The numeric arrays used in a MAT assignment statement are of different data types.	Check type declarations for arrays; make them the same data type, e.g., both REAL or both LONG, etc.
39	'DEF' WITHOUT 'FNEND'	Multi-line function definition is not terminated by an FNEND statement.	Include FNEND as last statement in function definition.

Table 3-24. Pseudo-Compile BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
40	'DO' WITHOUT 'DOEND'	In IF statement, group of statements introduced by DO are not terminated by DOEND.	Include DOEND following last statement in group initiated by DO statement.
41	'FOR' WITHOUT 'NEXT'	Group of statements introduced by FOR statement not terminated by NEXT statement with same FOR variable.	Check variable in NEXT statement; if not matching, correct. If NEXT missing, include it.
42	SIMPLE VARIABLE ILLEGAL IN MAT STATEMENT	Variable specified in MAT statement is a simple variable rather than an array.	Change variable to array name; be sure it is dimensioned.
43	OUT OF SPACE IN 'MPE' FOR COM FILE	Insufficient disc space for temporary file used to save COM block when INVOKE statement is executed.	Ask system or group manager to increase disc space; or delete unneeded files.

Table 3-25. Run-Time BASIC Interpreter Error Messages

NO.	MESSAGE	MEANING	ACTION
0	OUT OF MEMORY	Not enough main memory to continue program execution. Program is extremely large; or attempt made to invert, transpose, or multiply a very large array; or many levels of nesting in recursive calls or user-defined functions; or evaluation of very complicated expression in very large program. May be due to insufficient virtual memory in system when there is a heavy load on the system.	Depending on cause, segment large program into smaller segments, or place any very large array in file, or reduce levels of nesting, or reduce expression complexity. Try running the program again, possibly at another time.
1	OUTPUT ONLY FILE	You attempted to read or input data from a write-only file.	Either change the file restrictions or correct the file name to that of a readable file.
2	STRING ARRAY SUBSCRIPT OUT OF BOUNDS	A subscript in a string array reference exceeds the dimensioned size of the string array.	Correct subscript.
3	NON-CONTIGUOUS STRING	The first substring designator exceeds the logical length of the string by more than one and there is no second substring designator.	Lower the value of the substring designator so that no characters are undefined.
4	ILLEGAL STRING	During file read from ASCII file, missing right quote or separator.	Correct record by rewriting; place comma separator within quotes in file PRINT statement.
5	INTEGER OVERFLOW	Value of an integer expression exceeds 32767 or is less than -32767.	Check the expression and attempt to reduce its value.
6	ARRAY SUBSCRIPT OUT OF BOUNDS	A subscript in an array reference exceeds the dimensioned size of the array.	Correct subscript.

Table 3-25. Run-Time BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
7	SUBSCRIPT < =0	You entered a negative value as a subscript.	Subscripts must evaluate to a positive integer; correct subscript.
8	UNDEFINED VALUE	Variable has not been assigned a value, or the assigned value is reserved to indicate this condition: sign bit set, all other bits zero.	Assign a value to the variable, or use UND function to test for condition.
9	INVALID SUBSTRING DESIGNATOR – INVALID LENGTH	Second substring designator is negative, or is more than one less than the first substring designator when designators are separated by a comma.	Correct the substring designator to a positive value, or increase its value so that it is one less (null string), equal to, or greater than the first substring designator.
10	STRING > 255 CHARACTERS	String value has length greater than 255 characters.	Break the string into several strings each less than 255 characters.
11	DATA OF WRONG TYPE	You attempted to read a numeric value from a DATA statement into a string variable or vice versa.	Check the correspondence between the variables in the READ statement and values in DATA statements, and correct.
12	OUT OF DATA	You attempted to read from a DATA statement when all values have been read.	Add a DATA statement with new values or use RESTORE to read from previous DATA statement.
13	ILLEGAL REPLICATOR IN IMAGE	A value used as a replicator in an IMAGE statement is less than 1, exceeds 255, or is not an integer.	Correct the replicator to a valid integer.
14	ILLEGAL CHARACTER IN IMAGE	An illegal symbol has been specified in a format specification in an IMAGE statement.	Check the legal symbols in your manual and correct.
15	ILLEGAL SPECIFICATION IN IMAGE	The combination of symbols in an IMAGE statement format specification is illegal.	Check your manual for correct IMAGE specification and correct.
16	MISSING QUOTE IN IMAGE	A literal is specified in an IMAGE statement format specification with a missing quote.	Supply the missing quote.
17	UPDATE ATTEMPTED TO NON-BASIC FILE	The UPDATE# statement is legal only for BASIC formatted files. It has been specified for an ASCII or binary file.	Remove the UPDATE# statement and update the file another way, or change the file name to that of a BASIC formatted file.
18	MISSING REPLICATOR IN IMAGE	A group specification was included in an IMAGE statement format specification that was not preceded by a replicator.	Either supply the replicator or remove the parentheses from the specification.
19	ATN(0,0) - RESULT = ZERO	Warning that a zero-valued complex argument was used.	
20	EXTRA RIGHT PARENTHESIS IN IMAGE	Too many right parentheses were included in grouped format specification in IMAGE statement.	Remove extra right parenthesis or include matching left parenthesis.
21	MISSING RIGHT PARENTHESIS IN IMAGE	More left parentheses than right parentheses were included in a grouped format specification in an IMAGE statement.	Include right parenthesis or remove extra left parenthesis.

Table 3-25. Run-Time BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
22	EXP OVERFLOW - RESULT = 1E77	Warning that exponent in floating-point number is greater than 10^{77} or less than 10^{-77} .	
23	MORE THAN 10 GOSUBS	You attempted to nest GOSUB statements more than 10 deep.	Change code to reduce nested GOSUBS.
24	RETURN WITHOUT GOSUB	A RETURN statement does not have a matching GOSUB statement.	Delete extra RETURN statement, include matching GOSUB, or if function return, add RETURN with expression.
25	FUNCTION NOT TERMINATED BY RETURN	Since no RETURN statement was included in user-defined multi-line function, interpreter attempted to execute FNEND statement.	Check function code and include RETURN, followed by expression.
26	OUT OF INPUT DATA	End-of-file was detected while reading a BASIC input file.	Check whether > EOD follows RUN command or data; include if missing.
27	NEGATIVE NUMBER TO REAL POWER	The exponent of a negative number must be an integer value between -32767 and 32767.	Correct value of exponent.
28	CHR\$ PARAMETER OUT OF RANGE	The parameter of a CHR\$ function is not an integer, or is less than zero or greater than 255.	Change CHR\$ parameter to an integer between 0 and 255.
29	ILLEGAL NUMBER	In CONVERT statement, string to number conversion produces overflow or bad number. In file read from ASCII file, overflow, bad number or missing separator.	Check CONVERT, correct string or include label; for ASCII file read, try reading to REAL variable or correct record by rewriting with comma separators within quotes.
30	'INV' ARRAY PARAMETER NOT SQUARE	MAT=INV statement used to invert array with different number of rows and columns.	Redimension array to be inverted so that it is square.
31	'INV' ARRAY PARAMETER IS SINGULAR	MAT=INV statement used to invert array whose determinant is zero.	Such an array cannot be inverted. Check if array name correctly specified.
32	ARRAY MULTIPLICANDS WITHOUT DIMENSIONS	Arrays to be multiplied not dimensioned correctly; number of columns in left operand must equal number of rows in right operand.	Dimension arrays to be multiplied so that the number of columns in first array equals number of rows in second array.
33	ARRAY ADDENDS OR SUBTRAHENDS WITHOUT DIMENSIONS	Array to be added to or subtracted from another array is not dimensioned correctly; number of rows and columns must be the same in both arrays.	Redimension array so that addition or subtraction can be performed element by element.
34	ARRAY PHYSICAL SIZE EXCEEDED	Logical length of array has been re-dimensioned so that it exceeds dimensioned array size.	Redimension array so that physical size is not exceeded.
35	ADVANCE ATTEMPTED TO NON-BASIC FILE	The ADVANCE statement is legal only for BASIC formatted files; it has been specified for binary or ASCII file.	Remove the ADVANCE statement and position file some other way, or correct the file name to that of a BASIC formatted file.

Table 3-25. Run-Time BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
36	READ ONLY FILE	You attempted to print data to a read-only file.	Either change the file restrictions or correct the file name to that of a printable file.
37	DIRECT ACCESS ILLEGAL	Direct access on file that can be accessed only serially, such as magnetic tape.	Change the access statement to a serial read or print, or correct the file name to that of a direct access file (e.g., any disc file).
38	ASSIGN ATTEMPTED DURING FILE ACCESS	You attempted to execute an ASSIGN statement in a user-defined function called from a file I/O statement.	Remove ASSIGN statement from function body.
39	FILE RECORD LENGTH EXCEEDED	Record length defined for file in CREATE statement or :BUILD command was exceeded in a direct print request to file.	Check print list in file PRINT statement against number of words specified in record size of file.
40	> BASIC NOT ALLOWED	Function request BRK(0) has disabled the > BASIC option.	Use BRK with argument greater than 0 to enable > BASIC.
41	DAT\$ PARAMETERS OUT OF RANGE	The parameters in the DAT\$ function were less than 1 or greater than 27, or the second parameter was less than the first.	Parameters specify substring for day (1-3), date (6-11), year (14-17), time (20-27).
42	PROGRAM STARTED WITHIN USER FUNCTION	The starting label specified in the RUN command or INVOKE or CHAIN statement is within a user-defined function.	Check the label and change to a label outside the function but not to FNEND label.
43	LOG OF NEGATIVE NUMBER	Parameter of LOG function is negative; it must be a positive number.	Correct parameter to a positive number.
44	FILE NUMBER OUT OF RANGE	The specified file number is greater than the number of files declared in a FILES statement, or is less than 1.	Change to the number of an existing file.
45	FILE NOT OPEN	A specified file number has not been opened or has been closed.	Use ASSIGN statement to open file.
47	FILE DATA OF WRONG TYPE	Attempt has been made to read a numeric value from an ASCII or BASIC formatted file to a string variable, or vice versa.	Check item to be read and variable to which it is read and correct so they agree.
48	END OF FILE	The end-of-file has been reached.	Use ON END statement to test for end of file.
49	UPDATE ATTEMPTED AT END OF FILE	The end-of-file was reached while executing UPDATE statement.	Check position in file.
50	UPDATE DATA OF WRONG TYPE	Attempt has been made to update a numeric item in a BASIC formatted file with a string value, or vice versa.	Check item to be updated and value for update; correct so they agree.
51	OUT OF SPACE IN 'MPE' FOR 'INVOKE' FILE	Insufficient disc space exists for the temporary file used to save the program state when INVOKE statement is executed.	Ask system or group manager to increase account or group space; or delete any unneeded files in library.
52	'INVOKE' FAILED 'GETTING' PROGRAM	When INVOKE statement executed, it was unable to bring the specified program into the user work space.	Check the program name and determine whether it is correct.

Table 3-25. Run-Time BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
53	'CHAIN' FAILED 'GETTING' PROGRAM	When CHAIN statement executed, it was unable to bring the specified program into the user work space.	Check program name as with previous message.
54	LOG OF ZERO - RESULT = -1E77	Warning that parameter of LOG function is zero and is not a complex number.	
55	COMPLEX ABS OVERFLOW - RESULT = 1E77	Warning that complex parameter in ABS function caused an overflow; if x is complex, $ABS(x) = SQR(REA(x)**2 + IMG(x)**2)$.	
57	TAN OF PI/2 - RESULT = 1E77	Warning that parameter of TAN function results in infinite value.	
58	UNDERFLOW - RESULT = ZERO	Warning that result of expression is between -1E-77 and 1E-77 but not zero; denominator is much larger than numerator.	
59	OVERFLOW - RESULT = + OR - 1E77	Warning that value is greater than 1E77 or less than -1E77.	
60	DIVISION BY ZERO - RESULT = + OR - 1E77	Warning that division by zero occurred and result was set to 1E77 if numerator positive, to -1E77 if numerator negative.	
61	ZERO TO ZERO POWER	Program terminates as result of raising zero to the zero power.	Check expression that caused error and correct.
62	ZERO TO NEGATIVE POWER - RESULT = 1E77	Warning that zero was raised to a negative power and the result was set to 1E77.	
63	INTEGER ZERO TO POWER <= ZERO	Program terminates when type integer zero is raised to negative or zero power.	Check expression that caused error and correct.
64	ILLEGAL FILE SIZE	File size specified in CREATE statement is less than 1 or greater than 2 billion.	Change file size so that it is within legal range.
65	ILLEGAL RECORD SIZE	Record size specified in CREATE statement is less than 4 and greater than 319.	Change record size so that it is within legal range.
66	FILE NOT ASCII	Attempt to LINPUT from a non-ASCII file.	Use other input method or use ASCII file.
67	NO LOCK SPECIFICATION FOR FILE	Attempt to use LOCK# statement with file not opened with ASSIGN statement that specifies NL or WL restriction.	Check file name; if correct, open with ASSIGN specifying NL or WL restriction.
68	MULTIPLE FILE LOCK	Attempt to use LOCK# statement for more than one file at the same time.	Change code to lock one file at a time.
69	OVERFLOW - RESULT = + OR - 32767	Warning that integer overflow occurred on input to INPUT or ENTER statement.	Enter an integer in range -32767 through 32767.
70	INTEGER DIVISION BY ZERO	Program terminates as a result of dividing an integer by zero.	Check expression and correct.

Table 3-25. Run-Time BASIC Interpreter Error Messages (Continued)

NO.	MESSAGE	MEANING	ACTION
71	STRING OVERFLOW	A destination substring is specified that extends beyond physical length of string variable.	Check substring specification and correct.
72	'REDIM' SUBSCRIPT ≤ 0	Subscript expression in REDIM statement is less than 1.	Change subscript to a value of 1 or greater.
73	INCOMPATIBLE ARRAY DIMENSIONALITY	Attempt was made to redimension a one-dimensional array as a two-dimensional array.	Check REDIM and DIM statements for array, or if not dimensioned, check previous usage for default dimensions.
74	*CONTROL-Y BREAK	Warning that control-Y key was pressed to break an executing BASIC program.	To return control to the program, type GO.
75	RESTORE ERROR	Attempt was made to rewind a file that cannot be rewound (e.g., a card reader).	Check file name; if correct, delete rewind instruction.

Table 3-26. BASIC Status Parameter Values Returned by KSAM

STATUS VALUE	MEANING	ACTION
"00"	SUCCESSFUL COMPLETION — The current I/O operation was completed successfully.	None.
"02"	SUCCESSFUL COMPLETION, DUPLICATE KEY — In a call to BKREAD, the current key has the same value as the equivalent key in the last sequential record; duplicate keys are allowed. Or in a call to BKWRITE or BKREWRITE, the record just written created a duplicate key value for at least one key for which duplicates are allowed.	None required. Returned for information only.
"10"	AT END — A sequential read was attempted with BKREAD, but there was no next logical record in ascending sequence by key value, or random read attempted to position to record with key value less than lowest value or greater than greatest value.	Usually none. This result is a signal to close the file or perform some other end-of-file function.
"21"	INVALID KEY, SEQUENCE ERROR — BKWRITE attempted; record being written has primary key that is not in sequential order but file was opened for sequence checking. BKREWRITE attempted, but the primary key value was changed since the record being re-written was read.	Check the primary key value in the record; if you don't want sequence checking, reopen the file with <i>sequence</i> = 0. Check the primary key value. Either change it back to the original value or read the record again before calling BKREWRITE.

Table 3-26. BASIC Status Parameter Values Returned by KSAM (Continued)

STATUS VALUE	MEANING	ACTION
"22"	INVALID KEY, DUPLICATE KEY ERROR – BKWRITE or BKREWRITE attempted to write record that contains a duplicate value for a key that is not allowed duplicate values.	Check the key value. If possible change it to a unique value. If duplicate keys must be written, create the file again allowing duplicate values for the key and then copy the old file to the new file.
"23"	INVALID KEY, NO RECORD FOUND – BKSTART or BKREADBYKEY attempted to locate a record by a key value that could not be found.	Check the key value, and key location parameters. Correct if necessary. If record that cannot be found should be in file, you may want to list data file with FCOPY.
"24"	INVALID KEY, BOUNDARY VIOLATION – BKWRITE attempted to write beyond the externally defined boundaries of the file.	Re-enter command.
"71"	REQUEST DENIED, FILE ALREADY LOCKED – BKLOCK was called with conditional locking and the file was already locked by another user.	Perform some action that does not require exclusive access and then try BKLOCK again. As soon as the other user unlocks the file BKLOCK will work.
"81"	INVALID CALL, WRONG NUMBER OF PARAMETERS – A procedure call had too many or too few parameters.	Check the call syntax and correct; if not sure of error, consult manual.
"82"	INVALID CALL, INVALID PARAMETER – Specified parameter is not the correct type. For example, a string variable was specified where only numeric variables or constants are allowed.	Check the parameter and compare it to the rules specified in this manual for the parameter format.
"83"	INVALID CALL, INSUFFICIENT INTERNAL BUFFER SPACE – The data to be written to the file is too long for the configured internal buffer space.	You can ask the system manager to reconfigure the system, or you may be able to reduce the amount of data being written from <i>parameterlist</i> .
"9xxx"	FILE SYSTEM ERROR – An MPE file system error occurred for which the value xxx specifies a 3-digit code between "0" and "255".	Within your program you can call BKERROR to display a message with the meaning of the code; you can consult table A-1 for the code meaning.

APL MESSAGES

Messages issued by APL/3000 include the following:

- Translation Error Messages summarized in table 3-27.
- Execution Error Messages summarized in table 3-28.
- Editor Error Messages summarized in table 3-29.
- Library Command Error Messages summarized in table 3-30.
- File System (Shared Variable Facility) Error Messages summarized in table 3-31.

An APL program may generate FCHECK intrinsic errors. These errors are described in table 2-7. Table 3-32 lists the FCHECK intrinsic error numbers corresponding to APL error numbers.

Table 3-27. APL/3000 Translation Error Messages

VERBOSE	TERSE	MEANING	ACTION
CASE LABEL TOO BIG	LABEL ERROR	A subcase label cannot exceed the CASE statement <i>integer constant</i> value.	Decrease size of label.
CASE RANGE MUST BE INTEGER	DOMAIN ERROR	Case range may not be a real number.	Change to integer range.
CASE RANGE TOO BIG	DOMAIN ERROR	The largest case number allowed is 1023.	Reduce range of the case.
COMMENT ERROR	SYNTAX ERROR	Format of comment is incorrect. Lamp symbol terminating comment may be missing.	Check format and correct comment.
CONSTANT ERROR	SYNTAX ERROR	Format of constant is incorrect.	Check format and correct constant.
DUPLICATE CASE LABEL	LABEL ERROR	There are two identical case labels.	Remove or replace one of the labels.
DUPLICATE DEFAULT CASE	SYNTAX ERROR	Only one default case is allowed.	Remove one of the defaults.
DUPLICATE LABEL	LABEL ERROR	Label occurs more than once.	Remove or replace one of the occurrences.
DUPLICATE NAME IN HEADER	DEFN ERROR	Identical names appear in same header.	Remove or replace one of the labels. Correct references to it.
EXPONENT OVERFLOW	DOMAIN ERROR	Number is too large. Exponent is beyond range computer can represent.	Reformulate problem.

Table 3-27. APL/3000 Translation Error Messages (Continued)

VERBOSE	TERSE	MEANING	ACTION
FUNCTION ALREADY	DEFN ERROR	Function has already been saved.	Purge or rename existing function and save this one.
ILLEGAL IN HEADER	DEFN ERROR	Header definition is in error.	Correct the definition.
KEYWORD 'PROCEDURE' MISSING	DEFN ERROR	The word PROCEDURE must appear in an APLGOL function header.	Correct the header.
LOCAL LIST ERROR	DEFN ERROR	An error occurred in a local list.	Correct the error.
MISSING NAME	DEFN ERROR	Name must be supplied in function header.	Correct the header.
NON-EXISTENT CONTROL STRUCTURE	SYNTAX ERROR	No such control available.	Replace with valid structure.
REAL CASE LABEL	LABEL ERROR	Case label may not be type real.	Change to an integer label.
SYNTAX ERROR	SYNTAX ERROR	Statement format is not valid or characters are incorrectly used.	Check statement and correct.
TOO MANY COMMENTS	INTERNAL OVERFLOW	The area for comments in a function is full.	Remove some comments.
TOO MANY CONSTANTS	INTERNAL OVERFLOW	Area for constants in a function is full.	Remove some constants.
TOO MANY NAMES	DEFN ERROR	Too many names appear in function header before local list.	Remove some of these names.
WOULD CAUSE SI DAMAGE	DEFN ERROR	Replacing this function which is suspended or pending would damage state indicator.	Clear the state indicator.

Table 3-28. APL/3000 Execution Error Messages

VERBOSE	TERSE	MEANING	ACTION
ASSERTION FAILED	ASSERTION FAILED	A user-specified assertion failed.	Examine program to find error.
BINDING ERROR	BINDING ERROR	Characteristics assumed for data structure or type are no longer appropriate.	APL assumes new attributes which are currently correct.
DEFN ERROR	DEFN ERROR	Function cannot be established as specified.	Check function header or state indicator.
DOMAIN ERROR	DOMAIN ERROR	Attempt has been made to use an illegal data item or function argument.	Replace with legal item.
ENVIRONMENT LIMIT EXHAUSTED	NO ENVIRONMENTS	Only 15 environments may be captured and held at a time.	
ENVIRONMENT NOT ON STACK	DOMAIN ERROR	Attempt has been made to capture an environment which is not on the state indicator.	Respecify the desired capture point.
FUNCTION CALLS TOO DEEP	DEPTH ERROR	Nested procedure calls exceed limit.	Change maximum depth allowable by using)DEPTH command or look for infinite recursive call.
FUNCTION VALENCE CHANGED	SYNTAX ERROR	Number or arguments to this function has been modified.	
INCORRECT COMMAND	INCORRECT COMMAND	Command is not recognized as a legitimate command.	Check reference manual and enter correct command.
INDEX ERROR	INDEX ERROR	Index calculation has been made which is out of range for array in question.	Correct the index value or array definition.
INTEGER DIVIDE BY 0	DOMAIN ERROR	Integer has been divided by zero.	Modify statement.
INTERNAL OVERFLOW	INTERNAL OVERFLOW	APL cannot accept a statement this complex.	Simplify statement, if possible.
INTERRUPT	INTERRUPT	Work in progress has been interrupted by typing two 'ATTENTION's (Control Y twice in rapid succession).	APL returns to calculator mode.

Table 3-28. APL/3000 Execution Error Messages (Continued)

VERBOSE	TERSE	MEANING	ACTION
LENGTH ERROR	LENGTH ERROR	Arrays with incompatible lengths are arguments to a function.	Change array specifications so lengths are compatible.
INTERRUPT - WS NOT LOADED	INTERRUPT	A)LOAD operation has been interrupted.	
INTERRUPT - WS NOT SAVED	INTERRUPT	A)SAVE operation has been interrupted.	
NAME TOO LONG	NAME TOO LONG	Name exceeds 128 characters in length.	Replace with shorter name.
NON-EXISTENT ENVIRONMENT	DOMAIN ERROR	An environment number has been used for which there is no environment.	Replace with correct number.
NOT YET IMPLEMENTED	NONCE ERROR	Attempt has been made to use a feature of APL that has not been implemented yet.	
RANK ERROR	RANK ERROR	Number of dimensions of an array are incompatible with its use.	Change rank of array or arrays.
REAL DIVIDE BY ZERO	DOMAIN ERROR	Real number has been divided by zero.	Modify statement.
REAL OVERFLOW	DOMAIN ERROR	A real calculation results in a number which is too large.	Rescale calculation.
REAL UNDERFLOW	DOMAIN ERROR	Calculation results in a number that is too small to be represented.	Rescale calculation.
SYNTAX ERROR	SYNTAX ERROR	Statement format is not valid or incorrect characters are used.	Enter correct statement.
SYSTEM ERROR	SYSTEM ERROR	An APL software error has occurred.	Contact your HP systems engineer.
TOO MANY SYMBOLS IN WS	SYMBOL TABLE FULL	Symbol table can contain at most 8192.	Reduce the number of symbols.
VALUE ERROR	VALUE ERROR	Attempt has been made to use an uninitialized item in a calculation.	Initialize the item.

Table 3-28. APL/3000 Execution Error Messages (Continued)

VERBOSE	TERSE	MEANING	ACTION
WORKSPACE FULL	WS FULL	Virtual memory space is full and work space cannot be made larger. 	Delete some functions or a variable; compress space used by sequence:)SAVE workspace)CLEAR)COPY workspace If this does not help, see system manager about getting more disc space.

Table 3-29. APL/3000 Editor Error Messages (Continued)

VERBOSE	TERSE	MEANING	ACTION
CHANGE STRING NOT DEFINED	CHANGE STRING NOT DEFINED	Editor needs a replacement string.	Supply missing string.
FIND STRING NOT DEFINED	FIND STRING NOT DEFINED	Editor needs a string to compare for a match.	Supply this string.
ILLEGAL DELTA VALUE	ILLEGAL DELTA VALUE	Delta value cannot be recognized.	Correct the value.
ILLEGAL LINE RANGE	ILLEGAL LINE RANGE	Specified line range does not exist.	Correct the range.
ILLEGAL NAME	ILLEGAL NAME	Name may contain alphanumeric characters. Must begin with alphabetic character, delta (Δ) or delta underline (<u>Δ</u>).	Correct the name.
INTERRUPT	INTERRUPT	Control Y has been entered.	Try again if desired.
LINE NOT FOUND	LINE NOT FOUND	Specified line does not exist.	Supply a correct line number.
MISSING ASSIGNMENT	MISSING ASSIGNMENT	Assignment operator is required.	Supply the missing operator.
MISSING COLON	MISSING COLON	Colon is required in this line.	Add colon to line in appropriate place.
MISSING DELTA	MISSING DELTA	Delta must be specified.	Supply missing delta.
MISSING DELTA VALUE	MISSING DELTA VALUE	Delta value is missing.	Supply missing delta.
MISSING LINE COUNT	MISSING LINE COUNT	Line count must be specified.	Supply missing line count.
MISSING START LINE	MISSING START LINE	A start line must be specified.	Supply missing specification.
MUST BE APL OR APLGOL	MUST BE APL OR APLGOL	Missing APL or APLGOL in line.	Supply one or the other.
NO LINE NUMBER ROOM	NO LINE NUMBER ROOM	There is not more room for line numbers.	Resequence the lines.
NO SUCH COMMAND	NO SUCH COMMAND	An invalid command has been entered.	Check reference manual and reenter command.
NOT YET IMPLEMENTED	NONCE ERROR	This APL feature has not been implemented.	Do not use at this time.

Table 3-29. APL/3000 Editor Error Messages (Continued)

VERBOSE	TERSE	MEANING	ACTION
NUMBER TOO LARGE	NUMBER TOO LARGE	Number specified is too large.	Decrease value of number.
PATTERN STRING NOT DEFINED	PATTERN STRING NOT DEFINED	Editor needs a pattern string.	Supply the missing string.
STRING NOT FOUND	STRING NOT FOUND	This string does not exist.	Check string to see if correct.
SYNTAX ERROR	SYNTAX ERROR	Edit command cannot be recognized.	Correct the command.
TOO MANY DECIMAL POINTS	TOO MANY DECIMAL POINTS	There is more than one decimal point in the item.	Remove one of the decimal points.
WILL NOT OVERLAY LINE	WILL NOT OVERLAY LINE	Line already exists. Editor will not overlay lines when performing a 'RESEQUENCE' or 'COPY' command.	Specify another line or delete old line. Correct line range.
WORKSPACE FULL	WS FULL	There is no more workspace available.	Remove some functions or ask system manager for more disc space.

Table 3-30. APL/3000 Library Command Error Messages

VERBOSE	TERSE	MEANING	ACTION
ACCOUNT OR GROUP NON-EXISTENT	NO SUCH LIB	There is not an account or group of this name.	Check spelling.
CANNOT OBTAIN EXCLUSIVE ACCESS	ACCESS ERROR	Specified file is being used.	Wait until other user finishes with file or specify another file.
DIRECTORY OVERFLOW	NO SPACE	Disc directory is full.	Remove some entries by purging some unused files.
FILE CREATOR CONFLICT	ACCESS ERROR	Only the file's creator has sufficient authority to perform this operation on specified file.	
FILE IS NOT AN APL WORKSPACE	FILE NOT WS	File has been found but is not an APL workspace.	Check spelling of file name.

Table 3-30. APL/3000 Library Command Error Messages (Continued)

VERBOSE	TERSE	MEANING	ACTION
INCORRECT PASSWORD SUPPLIED	WS LOCKED	Password is incorrect.	Correct and try again.
INCORRECT WORKSPACE NAME	BAD WSID	Specified workspace is wrong.	Check spelling.
INTERRUPT - WS NOT LOADED	INTERRUPT	Load has been interrupted by a Control Y.	Load again if desired.
INTERRUPT - WS NOT SAVED	INTERRUPT	Save has been interrupted by a Control Y.	Save again if desired.
NO DISC SPACE AVAILABLE	NO SPACE	There is insufficient disc space available.	Delete some files or ask system manager for more disc space.
NOT SAVED - FILE ALREADY EXISTS	FILE EXISTS	Attempt has been made to save a file which already exists.	Purge old file if not needed or change its name.
NOT SAVED - WORKSPACE HAS NO NAME	UNNAMED WS	Attempt has been made to save an unnamed workspace.	Supply a name.
SECURITY DISALLOWS ACCESS	ACCESS ERROR	File is security protected.	Use another file or request sufficient capability from system or account manager.
UNEXPECTED FILE ERROR	SYSTEM ERROR	Error condition has been returned from the file system.	Check for end-of-file condition.
WORKSPACE DOES NOT EXIST	WS NOT FOUND	Specified workspace cannot be found.	Check spelling.

Table 3-31. APL/3000 File System Errors

VERBOSE	TERSE	MEANING	ACTION
ACCOUNT OR GROUP NON-EXISTENT	NO SUCH LIB	Account or group of specified name does not exist.	Check spelling of name.
CANNOT OBTAIN EXCLUSIVE ACCESS	ACCESS ERROR	Specified file is being used.	Wait until other user is finished or specify another file.

Table 3-31. APL/3000 File System Errors (Continued)

VERBOSE	TERSE	MEANING	ACTION
DIRECTORY OVERFLOW	NO SPACE	Disc directory is full.	Remove some entries by purging unnecessary or unused files.
FILE CREATOR CONFLICT	ACCESS ERROR	Only file's creator may perform operation.	
FILE IS NOT APL WORKSPACE	FILE NOT WS	File has been found but is not APL workspace.	Check spelling of file name.
INCORRECT PASSWORD SUPPLIED	WS LOCKED	Password is not valid.	Supply correct password.
INCORRECT WORKSPACE NAME	BAD WSID	Specified workspace is invalid.	Check spelling.
NO DISC SPACE AVAILABLE	NO SPACE	There is insufficient disc space to perform operation.	Delete some files or request more disc space from system manager.
NOT SAVED - FILE ALREADY EXISTS	FILE EXISTS	Attempt has been made to save a workspace with a file name that already exists.	Purge old file if unnecessary or change its name.
NOT SAVED - WORKSPACE HAS NO NAME	UNNAMED WS	Attempt has been made to save an unnamed workspace.	Supply name.
SECURITY DISALLOWS ACCESS	ACCESS ERROR	File is security protected.	Use another file or ask system or account manager for sufficient capability to access file.
SHARED FILE ERROR	FILE ERR	When performing operations on files through the shared variable system, errors can occur that print this message and return to APL calculator mode.	
SV DOMAIN ERROR	SV DOMAIN ERROR	Data item whose domain is improper for the requested operation has been written into an APL shared variable.	
SV LENGTH ERROR	SV LENGTH ERROR	Data item whose length is not proper for the requested operation has been written into an APL shared variable.	
SV RANK ERROR	SV RANK ERROR	Data item whose rank is improper for the requested operation has been written into an APL shared variable.	

Table 3-31. APL/3000 File System Errors (Continued)

VERBOSE	TERSE	MEANING	ACTION
UNEXPECTED FILE ERROR	SYSTEM ERROR	APL detected an unexpected file system error.	Notify your HP systems engineer.
WORKSPACE DOES NOT EXIST	WS NOT FOUND	Specified workspace cannot be found.	Check spelling.

Table 3-32. Correspondence Between FCHECK and APL Error Numbers

APL ERROR NUMBER	FCHECK ERROR NUMBERS	
100	20 through 45 47 through 49 55 through 60 63 and 64 71 through 73 80 through 89 102 106 and 107 110	
101	92	
102	52 and 53 100 and 101	
104	46 61 and 62	
105	50 and 51	
106	54	
107	90 and 91	
108	93	
109	94	
110	103 and 104	
-1000	APL only.	File already opened. Remains as previously opened.
-1001	APL only.	File not yet opened.
-1002	APL only.	Attempt made to write to a file with a record size which would cause stack overflow.

DATA BASE MANAGEMENT ERROR MESSAGES

SECTION

IV

MPE Data Base Management consists of two systems: IMAGE/3000 and QUERY/3000. IMAGE/3000 is used to define, create, and manage the data base; QUERY/3000 is used to access the data base interactively.

IMAGE/3000 error messages are described in three parts:

Schema Processor Errors	Tables 4-1 through 4-3
Library Procedure Errors	Tables 4-4 through 4-7
Utility Errors	Tables 4-8 and 4-9

QUERY/3000 error messages are described separately for each command that can generate an error in addition to a set of general messages that can occur as a result of any command. The messages are listed in a total of 16 tables:

General Messages	Table 4-10
ALTER Messages	Table 4-11
CREATE Messages	Table 4-12
DATA-BASE= Messages	Table 4-13
DATE-SETS= Messages	Table 4-14
DESTROY Messages	Table 4-15
DISPLAY Messages	Table 4-16
FIND Messages	Table 4-17
FORM Messages	Table 4-18
LIST Messages	Table 4-19
OUTPUT Messages	Table 4-20
PROC-FILE= Messages	Table 4-21
RENAME Messages	Table 4-22
REPORT Messages	Table 4-23
UPDATE Messages	Table 4-24
XEQ Messages	Table 4-25

IMAGE/3000 ERROR MESSAGES

IMAGE/3000 issues three different types of error messages:

- Schema Processor Error Messages
- Library Procedure Error Messages
- Utility Error Messages

The Schema Processor messages result from errors detected during processing of the data base schema. The Library Procedure messages are messages that may occur during execution of calls to the data base library procedures: DBOPEN, DBINFO, DBCLOSE, DBFIND, DBGET, DBUPDATE, DBPUT, DBDELETE, DBLOCK, and DBUNLOCK. The Utility error messages are caused by errors in execution of the data base utilities: DBUTIL, DBSTORE, DBRESTOR, DBUNLOAD, and DBLOAD.

SCHEMA PROCESSOR MESSAGES

The Schema Processor accesses three files:

- the textfile (DBSTEXT) containing the schema records and schema processor commands for processing.
- the listfile (DBSLIST) containing the schema listing, if requested, and error messages, if any.
- the root file, if requested, created as the result of an error-free schema.

Any file error which occurs while accessing any of these files causes the Schema Processor to terminate execution. A message indicating the nature of the error is sent to \$STDLIST (and to the listfile, if listfile is different from \$STDLIST).

Table 4-1 lists the various file error messages. Each such message is preceded by the character string:

***** FILE ERROR *****

Additionally, the Schema Processor prints a standard MPE/3000 file information display on the \$STDLIST file. Refer to appendix A for the meaning of MPE/3000 file information displays.

Schema Processor command errors may occur. They neither cause termination nor do they prohibit the creation of a root file. In some cases, however, the resultant root file will differ from what might have occurred had the commands been error free. Command errors are added to an error count which, if it exceeds a limit (see Section III of the IMAGE/3000 Reference Manual), will cause the Schema Processor to terminate execution.

Table 4-2 lists the various Schema Processor command error messages. Each such message is preceded by the character string:

***** ERROR *****

Data base definition syntax errors may be detected by the Schema Processor. Their existence does not cause termination but does prohibit root file creation. Discovery of one may trigger others which disappear after the first is corrected. Also, detection of one may preclude detection of others which appear after the first is corrected. Syntax errors are also added to an error count which, if excessive, will cause Schema Processor termination.

Table 4-3 lists the various syntax error messages. As with command errors, each syntax error is preceded by the character string:

***** ERROR *****

If the LIST option is active (see Section III of the IMAGE/3000 Reference Manual), error messages for command errors and syntax errors appear in the listfile following the offending statement. If the NOLIST option is active, only the offending statement, followed by the error message, is listed.

Table 4-1. IMAGE/3000 Schema Processor File Errors

MESSAGE	MEANING	ACTION
READ ERROR ON file name	FREAD error occurred on the specified file.	Check <i>textfile</i> or :FILE command. Change data base name or purge file of same name. or Be sure correct file and file name used. Check :FILE commands used. If other cause, consult MPE Intrinsic Reference Manual for similar message.
UNABLE TO CLOSE file name	FCLOSE error occurred on specified file. May be caused by duplicate file in group with same name as root file.	
UNABLE TO USE file name	Specified file cannot be FOPENed or its characteristics make it unsuitable for its intended use.	
UNABLE TO WRITE LABEL OF file name	FWRITELABEL error occurred on specified file.	
UNEXPECTED END-OF-FILE ON file name	Call to FREAD or FWRITE on specified file has yielded unexpected end of file condition	
WRITE ERROR ON file name	FWRITE error occurred on the specified file.	

Table 4-2. IMAGE/3000 Schema Processor Command Errors

MESSAGE	MEANING	ACTION
COMMAND CONTINUATION NOT FOUND	If schema processor command is continued to next record, the last non-blank character of preceding line must be an ampersand (&), and continuation record must start with dollar sign (\$).	Examine schema textfile to find incorrect command, edit, run Schema Processor again.
COUNT HAS BAD FORMAT	Numbers appearing in ERRORS, LINES, BLOCKMAX parameters of the \$CONTROL command are not properly formatted integer values.	
ILLEGAL COMMAND	Schema processor does not recognize the command. Valid commands are \$PAGE, \$TITLE, and \$CONTROL.	
IMPROPER COMMAND PARAMETER	One of the parameters in a command is not valid.	
MISSING QUOTATION MARK	Character string specified in \$PAGE or \$TITLE command must be bracketed by quotation marks (").	
SPECIFIED TITLE TOO LONG	Character string appearing in \$TITLE or \$PAGE command exceeds 104 characters.	

Table 4-3. IMAGE/3000 Schema Syntax Errors

MESSAGE	MEANING	ACTION
AUTOMATIC MASTER MUST HAVE SEARCH ITEM ONLY	AUTOMATIC master data sets must contain entries with only one data item which must be a search item.	Examine schema to find incorrect statement, edit, and run Schema Processor again.
BAD CAPACITY OR TERMINATOR	Either the number in CAPACITY: statement is not an integer between 1 and $2^{23} - 1$ or a semicolon is missing.	
BAD PATH COUNT OR TERMINATOR	Path count in master data set definition is not an integer 1 to 16 (for an automatic) or 0 to 16 (for a manual). This message may also indicate path count is not followed by ") ".	
BAD CHARACTER IN USER CLASS NUMBER	User class number in password part is not integer from 1 to 63.	
BAD DATA BASE NAME OR TERMINATOR	Data base name in BEGIN DATA BASE statement is not valid data base name of from 1 to 6 alphanumeric characters beginning with an alphabetic, or is not followed by semicolon.	
BAD DATA SET TYPE	Data set type designator is not AUTOMATIC (or A), MANUAL (or M), or DETAIL (or D).	
BAD PATH CONTROL PART DELIMITER	Data item defined as sort item in detail data set is not properly delimited with parentheses.	
BAD PATH SPECIFICATION DELIMITER	Name of master data set following search item name in a detail data set definition is not followed by a ") " or by a sort item name enclosed in parentheses.	
BAD READ CLASS OR TERMINATOR	Read user class number defined for either a data set or data item is not an integer from 0 to 63 or is not terminated by a comma or slash.	
BAD SET NAME OR TERMINATOR	Data set name does not conform to rules for data set names (1 to 16 alphanumeric characters beginning with alphabetic, chosen from the set: A-Z, 0-9, or + - * / ? ' # % & @), or is not terminated by correct character for context in which it appears.	
BAD SUBITEM COUNT OR TERMINATOR	Subitem count for a data item defined in schema item part is not an integer from 1 to 255.	

Table 4-3. IMAGE/3000 Schema Syntax Errors (Continued)

MESSAGE	MEANING	ACTION
BAD SUBITEM LENGTH OR TERMINATOR	Subitem length for data item defined in schema item part is not an integer from 1 to 255.	Examine schema to find incorrect statement, edit, and run Schema Processor again.
BAD TERMINATOR — ';' OR ',' EXPECTED	Items within an entry definition must be separated from each other by commas and terminated by a semicolon.	
BAD TERMINATOR — ';' EXPECTED	Password or capacity was not followed by a semicolon.	
BAD TYPE DESIGNATOR	Data item defined in schema item part is not defined as type I, J, K, R, U, X, Z, or P.	
BAD WRITE CLASS OR TERMINATOR	Write user class number indicated for either data set or data item is not an integer from 0 to 63 or is not terminated by right parentheses or a comma.	
'CAPACITY:' EXPECTED	CAPACITY statement must follow entry definition in definition of data set in set part of schema.	
DATA BASE HAS NO DATA SETS	No data sets were defined in set part of schema. Data base must contain at least one data set.	
DUPLICATE ITEM SPECIFIED	Same data item name used more than once in entry definition of data set.	
DUPLICATE ITEM NAME	Data item name appears more than once in item part of schema.	
DUPLICATE SET NAME	Same name has been used to define more than one data set in schema set part.	
'ENTRY:' EXPECTED	Each data set defined in schema set part must contain ENTRY: statement followed by data item names of data items in entry.	
ENTRY TOO BIG	Number and size of data items defined for an entry of a data set yields entry which is too large for maximum block size (as either specified by \$CONTROL BLOCKMAX= command or by default).	
ENTRY TOO SMALL	Detail data set that is not linked to any master data set must have data entry length equal to or greater than two words. This length is determined by adding size in words of each data item defined in data entry.	

Table 4-3. IMAGE/3000 Schema Syntax Errors (Continued)

MESSAGE	MEANING	ACTION
ILLEGAL USER CLASS NUMBER	User class number defined in schema password part is not an integer between 1 and 63 inclusive.	Examine schema to find incorrect statement, edit, and run Schema Processor again.
ILLEGAL ITEM NAME OR TERMINATOR	Data item name does not conform to naming rules. (1 to 16 alphanumeric characters beginning with alphabetic, chosen from the set: A-Z, 0-9, or + - * / ? ' # % & @), or if in the item part, is not followed by a comma.	
ITEM LENGTH NOT INTEGRAL WORDS	Data item, simple or compound, must occupy an integral number of words.	
ITEM TOO LONG	Single data item cannot exceed 2047 words in length.	
MASTER DATA SET LACKS EXPECTED DETAILS	Master data set was defined with a non-zero path count, but the number of detail search items which back-referenced master is less than value of path count.	
MASTER DATA SET LACKS SEARCH ITEM	Master data set was defined without defining one of the data items in the set as a search item.	
MORE THAN ONE KEY ITEM	Master data set cannot be defined with more than one search item.	
MORE THAN ONE PRIMARY MASTER	User has defined more than one primary path for a detail data set.	
'NAME:' or 'END.' EXPECTED	Schema processor expected at this point to encounter the beginning of another data set definition or end of schema.	
'PASSWORDS:' NOT FOUND	'PASSWORDS:' statement must immediately follow the BEGIN DATA BASE statement in schema. If it does not, DBSCHEMA terminates execution.	
PASSWORD TOO LONG	Any password defined in data schema cannot exceed eight characters	
REFERENCED SET NOT A MASTER	Data set referenced by detail data set search item is another detail data set rather than a master.	

Table 4-3. IMAGE/3000 Schema Syntax Errors (Continued)

MESSAGE	MEANING	ACTION
SCHEMA PROCESSOR LACKS NEEDED TABLE SPACE	Schema processor is unable to expand its data stack to accommodate all of the translated information which will make up the root file. It continues to scan the schema for proper form, but will not perform all of the checks for correctness nor create a root file. To process schema correctly, operating system must be configured with a larger maximum stack size.	Ask system manager to increase maximum stack size.
SEARCH ITEM NOT SIMPLE	All data items defined in data schema as search items must be simple items	Examine schema to find incorrect statement, edit, and run Schema Processor again.
SEARCH ITEMS NOT OF SAME LENGTH	Master search item must be same type as any related detail data set search item.	
SEARCH ITEMS NOT OF SAME TYPE	Master search item must be same type as any related detail data set search items.	
SET HAS NO PATHS AVAILABLE	More detail data set search items have specified a relationship with a master data set than the number specified in master data set's path count.	
SORT ITEM NOT IN DATA SET	Detail data set's entry definition does not include an item which is specified as sort item for another item in entry.	
SORT ITEM OF BAD TYPE	Data item defined as sort item must be of type U, K, or X.	
SORT ITEM SAME AS SEARCH ITEM	Same item cannot be both search and sort item for same path.	
TOO MANY DATA ITEMS	Item part of schema may contain no more than 255 data item names.	Check schema, edit, run again.
TOO MANY DATA SETS	Data base can contain no more than 99 data sets.	
TOO MANY ERRORS	Specified or default maximum number of errors has been exceeded. Processing terminates.	Correct errors and/or increase ERROR parameter value.
TOO MANY ITEMS SPECIFIED	Data set entry can contain no more than 127 data items	Examine schema to find incorrect statement, edit, and run Schema Processor again.
TOO MANY PATHS IN DATA SET	Detail data set entry can contain no more than 16 search items.	
UNDEFINED ITEM REFERENCED	Data item appearing in data set definition was not previously defined in item part of data schema.	
UNDEFINED SET REFERENCED	Master data set referenced by detail search item was not previously defined in set part of data schema.	



LIBRARY PROCEDURE ERROR MESSAGES

The success of each call to an IMAGE library procedure is reflected upon return to the user by the hardware condition code and the value of a condition word returned in the first word of the status area.

If the procedure fails to execute properly, the hardware condition code is set to CCL (Condition Code Less) and the procedure returns a negative integer in the condition word. Table 4-4 describes the negative condition words resulting from file system and memory management failures, while Table 4-5 describes the negative condition words resulting from calling errors.

If the procedure operates properly but encounters an exceptional condition, such as end-of-file, the hardware condition code is set to CCG (Condition Code Greater) and the procedure returns a positive integer in the condition word. Table 4-6 describes the positive condition words resulting from exceptional conditions.

If the procedure operates properly and normally, the hardware condition code is set to CCE (Condition Code Equal) and the procedure returns zero in the condition word.

In addition to returning a condition word, all IMAGE library procedures put information about the procedure call into the fifth through tenth words of the status area. This information may be useful in debugging your programs, because it describes the conditions in which the particular results are obtained. This information is used by DBEXPLAIN and DBERROR when they are interpreting the results of IMAGE calls.

In a few cases this information is not returned by the IMAGE procedure because it uses the same words in the status area for returning other data. Specifically, successful execution of DBFIND, DBGET, DBUPDATE, DBPUT, or DBDELETE puts the other information here as described in Section IV of the IMAGE Reference Manual.

For any other return, error or non-error, from a library procedure, the specified words of the status area have the following contents:

Word	Contents
5	The PB-relative offset within the calling program's code segment of the current procedure call to the IMAGE library procedure (the location of the PCAL instruction in the SPL code.)
6	Bits 7-15: The intrinsic number of the called IMAGE library procedure. Bits 0-3: Zero or the access mode in which the data base is opened.
7	The DB-relative word address of the <i>base</i> parameter.
8	The DB-relative word address of the <i>password</i> , <i>qualifier</i> , or <i>dset</i> parameter.
9	The value of the <i>mode</i> parameter.
10	The PB-relative offset within the library procedure code segment at which return to the calling program was initiated (for HP use only).

Consult the *MPE Commands Reference Manual* for a discussion of PB and DB registers, and the *Systems Programming Language Reference Manual* for more information about the PCAL instruction.

ABORT CONDITIONS

In general, four types of error conditions can cause IMAGE to abort the calling process:

1. A call from a user process with the hardware DB register not pointing to the process stack.
2. A faulty calling sequence.
3. An internal error in an MPE file intrinsic which the calling procedure cannot correct.
4. An internal inconsistency in the data base or Data Base Control Block discovered by a library procedure.

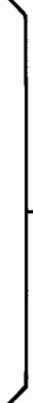
In case 1, the procedure prints the standard MPE run-time abort message described in Section II, tables 2-4 through 2-13. In cases 2, 3, and 4, IMAGE prints additional information on the standard list device about the error prior to printing the standard MPE abort message. The first line of this information is:

ABORT: *procedure name* ON DATA BASE *name*;

where *procedure name* is the name of the library procedure which caused the abort and *name* is the name of the data base being accessed at the time of the abort. Table 4-7 describes additional lines of information which may appear prior to the standard MPE abort message.

Some of the abort conditions are due to an error in one of the MPE file intrinsics FOPEN, FREADLABEL, FREADDIR, FWRITE LABEL, FWRITEDIR, FLOCK, or FCLOSE. Aborts of this type generally occur after the procedure has possibly altered the data base so that the data base structure has been damaged in some way. Each of the messages in table 4-7 which refer to an IMAGE data file is followed by an MPE file information display which lists all of the characteristics of the MPE data set or root file where the error occurred, along with an MPE error number. For more information about file error codes consult Section II, table 2-7 and for the file information display, consult appendix A.

Table 4-4. IMAGE/3000 Library Procedure File System and Memory Management Errors

CCL	PROCEDURE	MEANING	ACTION
-1	MPE intrinsic FOPEN failure	For DBOPEN, error may indicate that data base could not be opened. Possible reasons: • Data base name string not terminated with semicolon or blank • Data base does not exist or is secured against access by its group or account security • Data base is already opened exclusive or in mode incompatible with requested mode • MPE file system error occurred. For DBOPEN, DBINFO, DBFIND, DBUPDATE, DBPUT, and DBDELETE, error may occur if: • The process has too many files open external to the data base • Data set does not exist or is secured against access • Some other MPE file system error has occurred.	Determine which of probable causes applies and either modify application program or see system manager about file system error.
-2	MPE intrinsic FCLOSE FAILURE	This is an exceptional error (should never happen) and is returned only by DBOPEN or DBCLOSE. Indicates a hardware or system software failure.	 Notify system manager of error.
-3	MPE intrinsic FREADDIR failure	This is an exceptional error (as -2 above) and is returned by DBOPEN, DBFIND, DBGET, DBUPDATE, DBPUT, DBDELETE	
-4	MPE intrinsic FREAD-LABEL failure	This is an exceptional error (as -2 above) and is returned by DBOPEN, DBINFO, DBFIND, DBGET, DBUPDATE, DBPUT, DBDELETE.	
-7	MPE intrinsic FLOCK failure	Returned by DBLOCK (DBUPDATE if data base opened in Mode 2) if user does not have multiple RIN capability and already has been assigned RIN or, rarely, if all system's global RIN's have been assigned.	Ask system manager to assign multiple RIN capability, or increase number of global RINS, or try running program later.

NOTE: For condition words -1 through -4 and -7, second word of calling program's status area is the data set number for which file error occurred (zero indicates root file). Third word is MPE failure code returned by FCHECK intrinsic. Refer to table 2-7 for meaning of this code.

Table 4-4. IMAGE/3000 Library Procedure File System and Memory Management Errors (Continued)

CCL	PROCEDURE	MEANING	ACTION
-9	MPE intrinsic GETDSEG failure.	This is an exceptional error and is returned by DBOPEN when it cannot obtain extra data segment for use as Data Base Control Block. This occurs if required virtual memory space is unavailable or if required DST entry is unavailable.	Notify system manager of problem or wait until system is less busy.
-9	(continued)	Second word of user's status area is size (in words) of data segment which memory management was unable to supply. Third word is MPE failure code returned by GETDSEG intrinsic.	

Table 4-5. IMAGE/3000 Library Procedure Calling Errors

CCL	CONDITION	MEANING	ACTION
-11	Bad <i>base</i> parameter	For DBOPEN, the first two characters in <i>base</i> are not blank, or data base name contains special characters other than period. For all other procedures, either first two characters in <i>base</i> do not contain the value assigned by DBOPEN, or exceptionally, the parameters passed to procedure are incorrect in type, sequence or quantity.	Check application program's procedure call. Correct error in call.
-12	Data base not enabled	For DBUPDATE, DBPUT, and DBDELETE, data base has been opened in DBOPEN Mode 1 but has not been locked (using DBLOCK) since being opened or since last successful DBUNLOCK. Data base must be locked when using these intrinsics with access Mode 1.	Modify program to lock data base or change mode.
-14	Illegal intrinsic in current access mode	For DBPUT and DBDELETE data base has been opened in DBOPEN Mode 2, 5, 6, 7, or 8. These procedures may not be used with these access modes. For DBUPDATE, data base has been opened in DBOPEN Mode 5, 6, 7, or 8. DBUPDATE may not be used with these modes.	Modify program. Alter either mode or procedure call or notify current user that operation cannot be performed.
-21	Bad password	For DBOPEN, user class granted does not permit access to any data in data base. This is usually due to incorrect or null password.	Supply correct password.

Table 4-5. IMAGE/3000 Library Procedure Calling Errors (Continued)

CCL	CONDITION	MEANING	ACTION
-23	Bad data set reference	For DBINFO (modes 104, 201, 202, 301, and 302), DBCLOSE, DBFIND, DBGET, DBUPDATE, DBPUT, DBDELETE, DBLOCK, and DBUNLOCK, when data set reference is: • Numeric but out of range of the number of data sets in data base • An erroneous data set name • A reference to data set which is inaccessible to user class established when data base opened. For DBFIND, this error is also returned if referenced data set is a master. Erroneous data set name may arise when a terminating semicolon or blank is omitted.	Check application program's procedure call. Correct error in call.
	Bad data item reference	For DBINFO (modes 101, 102, and 204), data item reference is: • Numeric but out of range of the number of data items in data base • An erroneous data item name • A reference to data item which is inaccessible to user class established when data base opened. An erroneous data item name may arise when a terminating semicolon or blank is omitted.	Check application program's procedure call. Correct error in call.
	Data set not writable	For DBPUT and DBDELETE, data base has been opened in DBOPEN Mode 1, 3, or 4 and user has read but not write access to the referenced data set.	Modify access mode set in procedure call or notify current user operation cannot be performed.
	Data set is an automatic master	For DBPUT, the referenced data set is an automatic master.	Modify data set name in call or in data set type in schema.
	Bad <i>mode</i>	This error occurs in all procedures when the <i>mode</i> parameter is invalid. For DBGET, <i>mode</i> is 7 or 8 and referenced data set is a detail, or <i>mode</i> is 5 or 6 and referenced data set is a detail without search items.	Correct mode in procedure call.
	Unobtainable <i>mode</i>	For DBOPEN, root file cannot be FOPENed with access options (AOPTIONS) required for the specified <i>mode</i> . Second word of calling program's status area is required	See the <i>MPE Ininsics Reference Manual</i> for meaning of AOPTIONS words.

Table 4-5. IMAGE/3000 Library Procedure Calling Errors (Continued)

CCL	CONDITION	MEANING	ACTION
-32	(continued)	AOPTIONS, and third word is the AOPTIONS granted to DBOPEN by MPE file system. This error usually occurs either due to concurrent data base access by other users or due to MPE account or group security provisions.	Action depends on program's design. Normally notify user that requested access mode is not available.
-51	Bad <i>list</i> length	For DBGET, DBUPDATE, and DBPUT, the <i>list</i> is too long. This may occur if <i>list</i> is not terminated with a semicolon or blank. It may also occur for otherwise legitimate lists which are too long for IMAGE's work area. It will never occur for numeric lists.	Shorten <i>list</i> array contents. If necessary, change to numeric list.
-52	Bad <i>list</i> or bad <i>item</i>	For DBGET, DBUPDATE, or DBPUT, the <i>list</i> parameter is invalid. <i>list</i> either has a bad format or contains a data item reference which: • Is out of range of the number of data items in the data base. • Reference an inaccessible data item. • Duplicates another reference in the list. For DBFIND, the <i>item</i> parameter contains data item reference which either: • Is out of range of the number of data items in the data base. • Is not a search item for referenced data set.	Check procedure call. Correct error in call or parameter.
-53	Missing search or sort item	For DBPUT, a search or sort item of referenced data set is not included in <i>list</i> parameter.	Check procedure call. Correct error in call or parameter.
-91	Bad root modification level	For DBOPEN, the software version of the DBOPEN procedure is incompatible with version of schema processor which created root file.	Check with system manager that you have correct IMAGE software. If necessary ask HP support personnel about conversion.
-92	Data base not created	For DBOPEN, the referenced data base has not yet been created and initialized by the DBUTIL program (in CREATE mode).	Run DBUTIL to create data base. Try application program again.

Table 4-6. IMAGE/3000 Library Procedure Exceptional Conditions

CCG	CONDITION	MEANING	ACTION
10	Beginning of file	DBGET has encountered beginning of file during a backward serial read. (There are no entries before the one previously accessed.)	Appropriate action depends on program design.
11	End of file	DBGET has encountered the end of file during a forward serial read. (There are no entries beyond the most recently accessed one.)	
12	Directed beginning of file	DBGET has been called for a directed read with a record number less than 1.	
13	Directed end of file	DBGET has been called for a directed read with a record number greater than the capacity of data set.	
14	Beginning of chain	DBGET has encountered beginning of chain during a backward chained read.	
15	End of chain	DBGET has encountered end of chain during a forward chained read.	
16	Data set full	DBPUT has discovered that data set is full.	Restructure data base with larger capacity for this data set. See Section VI.
17	No entry	DBFIND is unable to locate master data set entry (chain head) for specified detail data set's search item value. DBGET has been called to reread an entry, but no "current record" has been established or a call to DBFIND has set the current record to 0. DBGET is unable to locate master data set entry with specified search item value. DBGET has discovered that selected record is empty (does not contain an entry). DBUPDATE or DBDELETE was called when the "current record" was not established or was empty.	Appropriate action depends on program design.
18	Broken chain	For DBGET with <i>mode</i> parameter equal to 5 (forward chained read), the "next entry" on current chain (as designated by internally maintained forward pointer for data set) contains backward pointer which does not point to most recently accessed entry (or zero for first member of a chain).	

Table 4-6. IMAGE/3000 Library Procedure Exceptional Conditions (Continued)

CCG	CONDITION	MEANING	ACTION
18	(continued)	For DBGET with <i>mode</i> parameter equal to 6 (backward chained read), the "next entry" on current chain in a backward direction (as designated by internally maintained backward pointer for data set) contains a forward pointer which does not point to most recently accessed entry (or zero for last entry in a chain). This error can arise in DBOPEN access modes 1, 5, and 6 because another user can make data base modifications concurrent with this user's accesses. When this error occurs, no data is moved to user's stack, although internal pointers maintained by IMAGE in the DSCB are changed to new "offending" entry. (It becomes the current entry.) Note that this error check does not detect all structural changes. DBGET makes check only when preceding call on data set was successful DBFIND or DBGET.	
20	Data base locked	DBLOCK (in conditional mode) has discovered that data base is locked by another process.	Appropriate action depends on program design.
41	Critical item	DBUPDATE has been asked to change value of search or sort item.	Correct call or notify user cannot update item.
42	Read only item	DBUPDATE has been asked to change value of a data item for which the user does not have write access.	Notify user, cannot update item. Or change password in program.
43	Duplicate search item value	DBPUT has been asked to insert data entry into a master data set with a search item value which already exists in data set.	Appropriate action depends on program design.
44	Chain head	DBDELETE has been asked to delete master data set entry which still has one or more non-empty chains.	
50	Buffer too small	Calling program's buffer (identified by <i>buffer</i> parameter) is too small for amount of information that DBGET or DBINFO wishes to return.	Correct procedure call, or change buffer name or size.
51	Insufficient stack for BIMAGE temporary buffer	The stack size is not large enough for the temporary buffer used by the BASIC IMAGE interface routines: XDBGET, XDBPUT, XDBUPDATE, and XDBINFO.	Ask system manager to increase maximum stack size.

Table 4-6. IMAGE/3000 Library Procedure Exceptional Conditions (Continued)

CCG	CONDITION	MEANING	ACTION
52	Invalid number of parameters	Call to BIMAGE interface procedure has either too many or too few parameters.	Correct procedure call.
53	Invalid parameter	Call to BIMAGE interface procedure has an invalid parameter, for example, a parameter of wrong type.	Correct parameter name in call or parameter itself.
54	Status array too small	The status array specified in call to BIMAGE interface procedure has less than 10 elements.	Dimension status array with 10 elements.
1xx	Missing chain head	User has attempted to add detail data entry with a search item value that does not match any existing search item value in corresponding manual master data set. The digits xx identify the offending path number established by order in which their search items occur in set part of schema.	Notify user cannot add entry or add manual master entry and try again.
2xx	Full chain	User has attempted to add detail data entry to a chain which already contains the maximum allowable (65535) entries. The digits xx identify the offending path number (as described in 1xx).	Consult with data base manager. May need to delete some entries from chain or restructure data base.
3xx	Full master	User has attempted to add detail data entry with a search item value in corresponding automatic master data set and new master entry cannot be created because automatic master data set is full. xx is offending path number, (as described in 1xx).	Restructure data base, increasing capacity of automatic master. (See Section VI).

Table 4-7. IMAGE Library Procedure Abort Condition Messages

MESSAGE	MEANING	ACTION
BUFFER SUPPLY CRISIS	Internal software inconsistency has caused IMAGE to improperly manage its buffer space.	Notify system manager and possibly HP support personnel of error. Save FID information if printed. It may be necessary to perform data base recovery procedures. (See Section VI).
CRITICAL LABEL READ ERROR ON data set	Procedure was unable to read label of data base file.	
CRITICAL READ ERROR ON data set	Procedure encountered MPE file read error while reading data base file.	
LABEL WRITE ERROR ON data set	Procedure was unable to complete the writing of user label of data base file.	
LOST FREE SPACE IN data set	Internal software inconsistency has caused unused record locations in data set to become lost or unavailable. IMAGE prints out a file information display for the data set file.	
NEGATIVE MOVE ATTEMPT: n	Internal software inconsistency has been detected by IMAGE while attempting to move data to or from user's stack.	
UNABLE TO CLOSE data set	Procedure was unable to close a data base file.	
UNABLE TO LOCK data set	Procedure was unable to lock a data base file.	
UNABLE TO OPEN data set	Procedure was unable to open a data base file.	
WRITE ERROR ON data set	Procedure encountered an MPE file write error while writing into data base file.	
WRONG NUMBER OF PARAMETERS OR BAD ADDRESS FOR PARAM #n	Address referenced by one of the parameters is not within user's stack area in memory (roughly between the DL and Q registers). n is positional number of the parameter in procedure's calling sequence. First parameter is number 1, second is number 2, etc.	



UTILITY ERROR MESSAGES

Two types of error messages are generated by the Utility programs. The first type consists of conditional errors associated with accessing the desired data base. Errors generating these messages can be corrected without terminating the run if the user is in session mode. After printing the error message the utility reprompts the user with the message: "WHICH DATA BASE?", allowing the user to re-enter the data base reference. If the user wishes to terminate the utility program at this point he may merely type a carriage return, with or without leading blanks. If the user is in job mode, conditional errors always cause program termination. Conditional error messages and their meanings are described in Table 4-8.

Unconditional errors occur in utility programs after successful execution has already begun. These errors always cause program termination. The accompanying messages and their meanings are described in Table 4-9.

Certain errors, external to the utilities, can result in utility program termination. Those caused by the operating system or initiated by the console operator are explained in Section II (Operating System) or Section VII (Console Operator). Errors initiated by the library procedures called by the utilities are described in Tables 4-4 through 4-7 of this section.

Table 4-8. IMAGE/3000 Utility Program Conditional Messages

MESSAGE	MEANING	ACTION
BAD DATA BASE REFERENCE	Data base reference following the utility program :RUN command contains syntax error.	In session mode, correct error or press <i>return</i> to terminate program.
BAD MAINTENANCE WORD	User invoking utility is not the creator of the referenced data base and has supplied incorrect maintenance word.	
DATA BASE ALREADY CREATED	User has invoked DBUTIL utility in CREATE mode and has specified the name of a data base which already exists.	
DATA BASE IN USE	Utility program cannot gain exclusive access to the referenced data base because of other current users.	
DATA BASE REQUIRES CREATION	Data base creator must run the DBUTIL program in CREATE mode prior to executing DBUNLOAD, DBLOAD, or DBUTIL in ERASE mode.	

Table 4-8. IMAGE/3000 Utility Program Conditional Messages (Continued)

MESSAGE	MEANING	ACTION
DUPLICATE FILE NAME	Required file name is already assigned to some other file. For example, if data base STORE requires six data sets (STORE01 – STORE06), then a previously defined file STORE03 would trigger this message. It can occur if data base is not purged before executing DBRESTOR.	In session mode, correct error or press <i>return</i> to terminate program.
EXCEEDS ACCOUNT DISC SPACE	Amount of disc space required by data base plus that already assigned to other files of this account exceeds the amount of disc space available to the account.	Request system manager to increase account's disc space.
EXCEEDS GROUP DISC SPACE	Amount of disc space required by data base plus that already assigned to other files of this group exceeds the amount of disc space available to the account.	Request system manager to increase group's disc space.
INSUFFICIENT DISC SPACE	Amount of disc space required for data base is not available from the system.	Consult with system manager about disc space requirements.
INSUFFICIENT VIRTUAL MEMORY	Amount of virtual memory available is insufficient to open and access data base.	Try running utility later when system is not so busy.
MAINTENANCE WORD REQUIRED	User invoking utility is not the creator of referenced data base and has failed to supply a maintenance word.	Correct error or press <i>return</i> to terminate program.
NO SUCH DATA BASE	Specified data base does not exist in user's log on group.	Check <i>base name</i> and log on account and group. Press <i>return</i> if want to terminate.
NOT ALLOWED; MUST BE CREATOR	User invoking utility is not the creator of the data base and data base has no maintenance word.	Log on with correct user name, account and group.
OUTMODED ROOT	Root file of specified data base corresponds to different version of IMAGE software and is not compatible with utility program currently executing.	Consult with system manager to verify correct version of software. If necessary ask HP support personnel about conversion process.

Table 4-9. IMAGE/3000 Utility Program Unconditional Messages

MESSAGE	MEANING	ACTION
AUTOMATIC MASTER IS FULL ON PATH NUMBER n	DBLOAD is unable to load a detail entry because automatic master data set associated with path n of detail data set is full.	Recreate root file with larger capacity for automatic master. Rerun necessary utilities.
CHAIN IS FULL ON PATH NUMBER n	DBLOAD is unable to load a detail entry because the chain count for path number n of detail data set exceeds $2^{16} - 1$ (or 65535 entries).	Either delete some entries from the chain and reload or change data base design if necessary.
DATA BASE UTILITY ERROR: p ₁ /p ₂ /p ₃ /p ₄ /p ₅	This message occurs when an unusual error condition is returned by an IMAGE library procedure. p ₁ , p ₂ , p ₃ are usually the first three words of status area returned by library procedure. Values of parameters depend upon procedure and specific error condition. p ₄ is the PCODE of library procedure, a number uniquely assigned to the procedure to identify it. p ₅ is an octal PB-relative return address within code segment of utility which initiated error message. (p ₁ through p ₄ are decimal while p ₅ is octal.)	For more information about the meaning of the parameters, see description of status array following table A-3. Also see Section IV for a description of library procedures.
DATA SET FULL	Data set currently being loaded is full.	Recreate root file, increase data set's capacity. Run utilities again.
NO MANUAL ENTRY FOR DETAIL ON PATH NUMBER n	DBLOAD is attempting to load a detail data set entry. n is the number of the detail data set path referencing the manual master in question.	Add entry to manual master with application program or QUERY. RUN DBLOAD again.
UNABLE TO CONTINUE	DBUTIL program (operating in PURGE mode) cannot continue execution due to exceptional error in file system. This information is followed by MPE file information display. See Appendix A.	Save file information. Consult with system manager and HP support personnel if necessary.

QUERY/3000 MESSAGES

The QUERY/3000 error messages are sent to the device specified as \$STDLIST for the operating system. This is normally a terminal for an interactive session, or the line printer for a job.

The messages fall in two categories: those recognized by QUERY such as incorrect command format, and those passed to QUERY from the IMAGE/3000 routines called by QUERY. Messages in the first category are described in separate tables for each command to which they apply (Tables 4-11 through 4-25), or in Table 4-10 containing general messages. Many of the messages in the second category are exceptional and may require the aid of HP support personnel if they persist. These messages are listed in Table 4-4 of this section, the IMAGE/3000 Library Procedure messages.

Table 4-10. QUERY/3000 General Messages

MESSAGE	MEANING	ACTION
<CONTROL Y>	You have entered Control Y.	Wait for QUERY prompt.
DATA BASE BUSY, DO YOU WISH TO WAIT (YES OR NO)?	Data base opened with access modes 1 and 5 with other users currently accessing the data base.	Reply NO to ignore current command. Reply YES to be placed in a wait queue until all other users in the queue have accessed the data base.
EOD ON COMMAND INPUT FILE	An :EOD, :JOB, :EOJ, or :DATA record has been encountered.	None.
FATAL ERROR: QUERY TERMINATED	Unrecoverable error has occurred during QUERY operation.	Consult with the data base administrator or the system manager.
FILE OPEN ERROR <i>code</i>	File error occurred while MPE opening file on your behalf. <i>code</i> is an MPE file system code describing the error.	See the <i>MPE Commands Reference Manual</i> for description of the File Information Display which has been printed.
FILE READ ERROR <i>code</i>	Physical error during Proc-file read operation. <i>code</i> is an MPE file system code.	Same as FILE OPEN ERROR above.
FILE WRITE ERROR <i>code</i>	Physical error during file write operation. If <i>code</i> = 0, end-of-file was detected.	Same as FILE OPEN ERROR above.
ILLEGAL SOURCE DIGIT IN CONVERSION CVAD — REPLACED WITH ZERO	Routine which converts ASCII numeric strings to packed decimal format has detected an illegal digit. Digit is converted to zero and processing continues.	None.

Table 4-10. QUERY/3000 General Messages (Continued)

MESSAGE	MEANING	ACTION
INPUT TOO LONG	Command just entered exceeds 698 characters.	Re-enter the command with fewer characters if possible.
INVALID COMMAND	QUERY does not recognize the command.	Consult the command description for proper format and (in session mode) re-enter the command.
PROCEDURE NAME NOT FOUND	Named procedure is not in the directory for the current Proc-file. This message may also appear if the command syntax is incorrect.	Correct the procedure name, declare a different Proc-file, or correct the command syntax.
PROC-FILE BUSY	Proc-file is currently being accessed by another user.	The command using the Proc-file is ignored. Try again later.
PROC-FILE NOT DECLARED	Command has referenced a procedure before a Proc-file has been declared.	Use the PROC-FILE= command to declare a Proc-file.
QUERY/3000 READY	QUERY successfully loaded and ready to accept a command.	Wait for the > prompt. Then enter a command.
READ ERROR FROM COMMAND INPUTFILE	Physical read error occurred while reading from the command input file.	Check the input device and try entering the command again. Consult with MPE system manager.
WRITE ERROR TO COMMAND LISTFILE	Physical write error occurred while writing to the standard list device (known as \$STDLIST to MPE).	Check the output device and try the current command again. Consult with MPE system manager.

DEFINE command error messages can be found with other commands. If an error occurs when responding to a DEFINE command prompt, look at the table for the command corresponding to that prompt. For example, the DATA-BASE= >> prompt messages are included in table 4-13, DATA - BASE = Command Messages.

Table 4-11. QUERY/3000 ALTER Command Messages

MESSAGE	MEANING	ACTION
END PROCEDURE DATA	Line number referenced in an insert, replace, or delete statement is greater than the final statement number of the procedure being altered.	Command terminates. Re-enter with the correct statement number.
EXPECTED A ','	Comma missing from the alter statement.	Re-enter the statement.
ILLEGAL NAME	Procedure name referenced exceeds eight characters, contains an illegal character, or consists of a reserved word.	Use DISPLAY LIST to determine the correct procedure name. Re-enter command with correct name.
INPUT ERROR	• No line number in an insert, delete, or replace statement (for example, /R,) • Beginning line number greater than ending statement number (for example, /R,5,3) • Beginning line number referenced in statement less than ending line number of previous statement (for example, /R,2,4/D,3) • Alter statement does not start with /I, /R, /D, or /E • Illegal character entered • /R or /I entered with no additional lines (for example, /R,4 /D,6)	Re-enter the statement correctly.
INPUT TOO LONG	Combined length of continued lines (lines connected by & character) has exceeded 250 characters.	Shorten the statement and re-enter the command.
NUMERIC VALUE ERROR	Line number contains too many digits or an illegal character.	Re-enter statement with correct line number.
PROCEDURE CANNOT BE DELETED BY ALTER	You have attempted to delete procedure line by line using ALTER. Procedure is not changed and command terminates.	To delete procedure, use the DESTROY command.

Table 4-11. QUERY/3000 ALTER Command Messages (Continued)

MESSAGE	MEANING	ACTION
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?	Proc-file being accessed by another user.	Reply NO to abort the command. Reply YES to be placed in wait queue until all users ahead of you in queue have accessed the file.
PROC-FILE OVERFLOW, INPUT TERMINATED	Procedure currently being altered has overflowed the available space left on the Proc-file. Part of procedure may be lost.	List procedure using DISPLAY command before attempting to execute it.
SCRATCH FILE { READ } { WRITE } ERROR <i>code</i>	Physical read/write error occurred in a QUERY scratch file. File not accessible to users. <i>code</i> is an MPE file system code.	See FILE OPEN ERROR in table 4-10. Try command again.

Table 4-12. QUERY/3000 CREATE Command Messages

MESSAGE	MEANING	ACTION
DIRECTORY OVERFLOW, PROCEDURE REJECTED	Current Proc-file directory is full and cannot accept more procedures.	Delete existing unused procedures on current Proc-file or build and declare another one with PROC-FILE= command.
DUPLICATE PROCEDURE NAME	Procedure name already exists on the current Proc-file.	Create the procedure again with a different name.
EXPECTED A ','	Comma must follow the procedure name.	Re-enter the command.
FILE NOT TYPE ASCII	File referenced is not an ASCII file.	Re-enter the command using the name of an ASCII file.
ILLEGAL NAME	Procedure name exceeds eight characters, contains an illegal character or consists of a reserved word.	See the CREATE command (Section V) for naming rules. Re-enter command with correct name.
INPUT ERROR	Input line contains an illegal character or input line exceeds 250 characters.	Shorten line if possible and re-enter it.

Table 4-12. QUERY/3000 CREATE Command Messages (Continued)

MESSAGE	MEANING	ACTION
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?	Proc-file being accessed by another user.	Reply NO to abort the command. Reply YES to be placed in wait queue until all users ahead of you in queue have accessed the file.
PROC-FILE OVERFLOW, INPUT TERMINATED	Procedure being entered is too large for remaining space in Proc-file. Part of procedure that fits is stored.	List procedure with DISPLAY command to determine how much was saved.
RECORDS = xxx	Message printed in response to CREATE SPACE. xxx is number of unused records remaining in Proc-file.	None.

Table 4-13. QUERY/3000 DATA-BASE= Command Messages

MESSAGE	MEANING	ACTION
BAD DATA BASE REFERENCE	Data base name is invalid or the account or group specified does not exist.	Re-enter command with correct names.
DATA BASE IN USE	Data base is currently being accessed and cannot be opened with exclusive access mode.	Change mode or try later.
DATA BASE OPEN EXCLUSIVELY	Data base is currently being accessed by another user with exclusive access mode.	Wait until other user closes the data base and try again.
DATA BASE OPEN IN ANOTHER MODE	Data base is currently being accessed in an access mode which is incompatible with the one specified.	Try another mode or try again later. (See Section I for QUERY environments/compatible modes.)
DATA BASE REQUIRES CREATION	Data base root file exists, but files containing data sets do not.	Run the IMAGE/3000 program DBUTIL in CREATE mode to create the data base.
EXPECTED A '='	Command does not include an equal sign (=).	Re-enter the command.
ILLEGAL NAME	Data base name referenced contains an illegal character or more than 24 characters.	Re-enter command with correct name.

Table 4-13. QUERY/3000 DATA-BASE= Command Messages (Continued)

MESSAGE	MEANING	ACTION
INVALID MODE	Response to the MODE= prompt is not an integer from 1 to 8.	If prompted, re-enter mode. Otherwise re-enter the command.
INSUFFICIENT VIRTUAL MEMORY	QUERY cannot obtain necessary system disc space (virtual memory) to create table and work space required to access the data base.	Try again later. Notify system manager.
NO SUCH DATA BASE	Referenced data base does not exist or you did not include the account or group name.	Re-enter the command with the correct data base name or append a group or account and try again.
OUTMODED ROOT FILE	Data base root file was created using a different version of the IMAGE/3000 software, current QUERY software is not compatible with this file.	You may need to dump the data base to tape using the IMAGE/3000 DBUNLOAD program, recreate the data base root file using a different version of DBSCHEMA and DBUTIL, and reload the data base using DBLOAD. Ask the data base administrator for help.
PASSWORD ERROR	Password entered in response to PASSWORD= prompt either contains more than eight characters or does not allow at least read access to one or more data sets in the data base.	If prompted re-enter the password. Otherwise, re-enter the command.
SECURITY VIOLATION	MPE file security has been violated (for example, a user with read access attempts to open a file with write access.)	Try another mode or log-on account or ask the data base administrator for help.
UNABLE TO ACCESS DATA BASE IN THIS MODE, <i>m, n</i>	Root file cannot be opened with the access options required for the specific MODE. <i>m</i> is the list of required options (AOPTIONS) and <i>n</i> is the list of options granted by MPE file system. (<i>m, n</i> are integers)	Ask the data base administrator for help.

Table 4-14. QUERY/3000 DATA-SETS= Command Messages

MESSAGE	MEANING	ACTION
EXPECTED A '='	Command does not include an equal sign (=).	Re-enter the command.
EXPECTED A ','	Data set names in list must be separated by commas.	Re-enter the command.
ILLEGAL DATA SET NAME <i>name</i>	Either you cannot access the data set named <i>name</i> because your password is not sufficient or <i>name</i> does not exist in the data base being accessed.	Declare a different password if possible or use a different data set name.

Table 4-15. QUERY/3000 DESTROY Command Messages

MESSAGE	MEANING	ACTION
ILLEGAL NAME	Referenced procedure name contains more than eight characters or contains an illegal character or consists of a reserved word.	Use DISPLAY LIST to determine the correct procedure name. Re-enter the command with correct name.
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?	Proc-file is being accessed by some other user.	Reply NO to abort the command. Reply YES to be placed in a wait queue until all users in front of you in the queue have accessed the file.

Table 4-16. QUERY/3000 DISPLAY Command Messages

MESSAGE	MEANING	ACTION
EXPECTED A ','	Command is missing a comma.	Re-enter the command.
FILE DOES NOT EXIST, BEING CREATED	<i>filename</i> specified in the command does not exist in log on group. File is created by QUERY and saved using <i>filename</i> as the formal designator. File size is 200 records.	None.
ILLEGAL NAME	Referenced procedure name contains more than eight characters, contains an illegal character, or consists of a reserved word.	Use DISPLAY LIST to determine the correct procedure name. Re-enter the command with correct name.

Table 4-16. QUERY/3000 DISPLAY Command Messages (Continued)

MESSAGE	MEANING	ACTION
INPUT ERROR	- The beginning line number is less than 1 (for example, DISPLAY F101,0,3) - The beginning line number is greater than the ending line number (for example, DISPLAY F101,4,2)	Re-enter the command.
NUMERIC VALUE ERROR	A line number contains an illegal character or too many characters (for example, DISPLAY F101,2A,3)	Re-enter the command.
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?	Proc-file is being accessed by another user.	Reply NO to abort the command. Reply YES to be placed in a wait queue until all users ahead of you in queue have accessed the file.
SCRATCH FILE WRITE ERROR <i>code</i>	Physical write error has occurred in a QUERY scratch file. File is not accessible to users. <i>code</i> is an MPE file system code.	See FILE OPEN ERROR in table 4-10. Try command again.



Table 4-17. QUERY/3000 FIND Command Messages

MESSAGE	MEANING	ACTION
BROKEN CHAIN POINTERS	You have read only access and are sharing data base with user who is making structural changes to it.	Re-enter the command.
COMMAND TABLE OVERFLOW	FIND command contains more than 50 logical relationships.	Re-enter command with fewer relationships.
DATA BASE NOT DECLARED	FIND command has been entered prior to declaring the data base to be accessed.	Use the DEFINE or DATA-BASE= command to declare the data base.
DATA ITEM VALUE TOO LONG	Data item value entered exceeds 500 characters or the maximum allowable length for the data item type defined.	Re-enter command with a different value.
ENTRIES RETRIEVED EXCEEDS 65000	Only 65000 entries can be selected as a result of a single FIND command.	Re-enter command with stricter selection criteria or use the entries already selected.

Table 4-17. QUERY/3000 FIND Command Messages (Continued)

MESSAGE	MEANING	ACTION
xxx ENTRIES QUALIFIED	xxx is the number of entries selected by the FIND command.	None.
EXPECTED A CONNECTOR OR 'END'	Command is missing a logical connector (AND or OR) or a terminating "END", or an ending quote is missing from a data item value.	Re-enter command.
EXPECTED A LITERAL VALUE	Beginning or ending quote (") is missing from a data item value.	Re-enter the command.
'FIND' EXPECTED	Procedure called from the Proc-file through a FIND <i>procedure name</i> command is not a proper FIND procedure.	Use DISPLAY or DISPLAY LIST to determine the problem and re-enter the command with the correct procedure name.
ILLEGAL DATA ITEM NAME <i>name</i>	Data item <i>name</i> does not belong to the data set specified or to the data base currently being accessed.	Re-enter the command with a valid data item name. (Use the FORM command to determine the valid data item name.)
ILLEGAL DATA SET NAME <i>name</i>	Data set called <i>name</i> does not belong to the data base currently being accessed.	Re-enter the command with a valid data set name. (Use the FORM command to determine the valid set names.)
ILLEGAL ITEM LENGTH	Data item being referenced is not of the proper size and type to be processed by QUERY.	See Section I for description of acceptable data types.
INPUT TOO LONG — TRUNCATED	Data item value entered is longer than the defined length of the data item. Value is truncated on the left and stored.	None.
INVALID CONNECTOR OR TERMINATOR xxxx	QUERY expected a logical connector (AND or OR) or "END". xxxx is the offending character string appearing in place of the expected string.	Re-enter the command.
INVALID # VALUES FOR RELATIONAL OPERATOR	Multiple data item values may follow only the "equal" or "not equal" relational operators.	Re-enter the command changing either the relational operator or values.

Table 4-17. QUERY/3000 FIND Command Messages (Continued)

MESSAGE	MEANING	ACTION
INVALID RELATIONAL OPERATOR	A relational operator other than the acceptable ones shown in table 3-1 has been entered.	Re-enter command after consulting table 3-1 and replacing the incorrect operator.
NO ENTRY	No entries were located which match the criteria specified in the FIND command.	Enter next command.
NON-NUMERIC IN REAL VALUE	Non-numeric digit has appeared in a real data item value. (This does not include values entered in scientific notation such as 12.44E+04.)	Re-enter command with correct value.
NOT ENOUGH SECTORS IN QSKIB FILE	More data item values appear in a FIND command than can be stored in a job temporary file known to QUERY as QSKIB.	Re-enter the command with fewer data item values.
PROCEDURE NAME TOO LONG	Name of the procedure appearing in a FIND <i>procedure name</i> command is more than eight characters.	Re-enter the command with a valid procedure name.
RETRIEVAL FROM MORE THAN ONE DATA SET	FIND command has specified access to more than one data set or a FIND CHAIN command has specified access to more than one detail data set.	Determine the problem by using the FORM command and examining the FIND command just entered. Re-enter the command.
SCRATCH FILE $\left\{ \begin{array}{l} \text{READ} \\ \text{WRITE} \end{array} \right\}$ ERROR <i>code</i>	Physical error has occurred in a QUERY scratch file. File is not accessible to users. <i>code</i> is an MPE file system code.	See FILE OPEN ERROR in table 4-10. Try command again.
USING SERIAL READ	QUERY must read each record of the detail data set without benefit of a master data set.	Wait for QUERY to complete the search or terminate the command with Control Y.
WHAT IS THE VALUE OF <i>name</i>	FIND command contains a null data item value.	Supply a value for the data item called <i>name</i> .

Table 4-18. QUERY/3000 FORM Command Messages

MESSAGE	MEANING	ACTION
DATA BASE NOT DECLARED	FORM command has been entered prior to declaring the data base to be accessed.	Use the DEFINE or DATA-BASE= command to declare the data base name.
ILLEGAL DATA ITEM NAME <i>name</i>	Data item named <i>name</i> does not appear in the data base being accessed or is not accessible to you based upon your password.	Use the FORM command to determine the correct item or change your password with the PASSWORD= command.
ILLEGAL DATA SET NAME <i>name</i>	Data set called <i>name</i> does not belong to the data base currently being accessed or is not accessible to you based upon your password.	Same as previous message.

Table 4-19. QUERY/3000 LIST Command Messages

MESSAGE	MEANING	ACTION
COMMAND TABLE OVERFLOW	LIST command contains more than 10 logical relationships.	Re-enter the command with fewer logical relationships.
CONSTANT LITERAL TABLE OVERFLOW	Number of data item values appearing in the entire LIST command has exceeded the capacity of the table used to hold them.	Re-enter the command with fewer data item values.
DATA BASE NOT DECLARED	LIST command has been entered prior to declaring the data base to be accessed.	Use the DEFINE or DATA-BASE= command to declare the data base.
DATA ITEM VALUE TOO LONG	Data item value entered exceeds 500 characters or the maximum allowable length for the data item type defined.	Re-enter command with a different value.
DUPLICATE ITEM IGNORED <i>name</i>	Same data item has appeared more than once in the data item list. The first occurrence of the name is used and others are ignored.	None.

Table 4-19. QUERY/3000 LIST Command Messages (Continued)

MESSAGE	MEANING	ACTION
EXPECTED A CONNECTOR OR 'END'	Command is missing a logical connector (AND or OR) or a terminating "END" or a data item value is missing a terminating quote.	Re-enter the command.
ILLEGAL DATA ITEM NAME <i>name</i>	Data item <i>name</i> does not belong to the data set specified or to the data base currently being accessed.	Re-enter the command with a valid data item name. (Use the FORM command to determine the valid data item name.)
ILLEGAL DATA SET NAME <i>name</i>	Data set called <i>name</i> does not belong to the data base currently being accessed.	Re-enter the command with a valid data set name. (Use the FORM command to determine the valid set names.)
ILLEGAL ITEM LENGTH	Data item being referenced is not of the proper size and type to be processed by QUERY.	See Section I for description of acceptable data types.
ILLEGAL ITEM LENGTH – ITEM IGNORED	Item length exceeds the maximum for the data type and is not printed. Item maximums are: U136, X136, Z20, and P20.	See table 1-1 for maximum characters for each data type.
INPUT TOO LONG – TRUNCATED	Data item value entered is longer than the defined length of the data item. Value is truncated on the left for numeric type items and on the right for U and X type values.	None.
INVALID CONNECTOR OR TERMINATOR <i>xxxx</i>	QUERY expected a logical connector (AND or OR) or "END". <i>xxxx</i> is the offending character string appearing in place of the expected string.	Re-enter the command.
INVALID NUMERIC DIGIT	Value input for a data item defined as type Z or P contains an invalid or non-numeric digit.	Re-enter the command with the correct value.
INVALID RELATIONAL OPERATOR	A relational operator other than the acceptable ones shown in table 3-1 (QUERY/3000 Reference Manual) has been entered.	Re-enter the command after consulting table 3-1 and replacing the incorrect operator.

Table 4-19. QUERY/3000 LIST Command Messages (Continued)

MESSAGE	MEANING	ACTION
INVALID # VALUES FOR RELATIONAL OPERATOR	Multiple data item values may follow only the "equal" or "not equal" relational operators.	Re-enter the command changing either the relational operator or values.
NON-NUMERIC IN REAL VALUE	Non-numeric digit has appeared in a real data item value. (This does not include values entered in scientific notation such as 12.44E+04.)	Re-enter command with correct value.
NUMERIC VALUE ERROR	Numeric value input contains an illegal digit or the value exceeds the maximum value allowable for the data type.	See table 1-1 description of data item types. Re-enter command with correct value.
RETRIEVAL FROM MORE THAN ONE DATA SET	LIST command has specified access to more than one data set.	Use the FORM command to determine the data base structure and examine the LIST command just entered. Re-enter the command.
WHAT IS THE VALUE OF <i>name</i>	LIST command contains a null data item value.	Supply a value for the data item called <i>name</i> .

Table 4-20. QUERY/3000 OUTPUT= Command Messages

MESSAGE	MEANING	ACTION
EXPECTED A '='	Equal sign is missing from the command.	Re-enter the command.
FILE NOT TYPE ASCII	File equated to the QSLIST file (through an MPE :FILE command) is not an ASCII file.	Check the file and re-enter the command.
ILLEGAL NAME	Name following OUTPUT= is not LP or TERM.	Re-enter command.
INVALID COMMAND	OUTPUT=LP has been entered twice without an intervening OUTPUT= TERM. Command is ignored the second time it is entered.	None.
'QSLIST' DEVICE NOT AVAILABLE	Device defined as QSLIST is in use by another process.	Wait and try again later or use the terminal.

Table 4-21. QUERY/3000 PROC-FILE= Command Messages

MESSAGE	MEANING	ACTION
EXPECTED A '='	Equal sign (=) is missing from the command.	Re-enter the command.
FILE DOES NOT EXIST, BEING CREATED	<i>filename</i> specified does not exist in the log-on group. File is created by QUERY and saved using <i>filename</i> as the formal designator. File size is 200 records.	None.
FILE NOT TYPE ASCII	File referenced is not an ASCII file.	Re-enter the command using the name of an ASCII file.
FILE OPEN ERROR BAD RECSIZE	ASCII file being declared as the Proc-file does not contain a record size of 256 bytes.	Declare a different Proc-file with the PROC-FILE= command.
ILLEGAL NAME	Proc-file name contains an illegal character.	Re-enter command with valid name.
OLD FORMAT ON PROCEDURE FILE	File specified as the Proc-file does not have a file code of 1070.	Ask the data base administrator for help.
PROC-FILE TOO LARGE	File being declared as Proc-file is larger than 400 records.	Re-enter command with a different file name.
PROC-FILE TOO SMALL	File being declared as the Proc-file is smaller than five records.	Re-enter command with a different file name.
UNABLE TO USE FILE	The requested new Proc-file <i>name</i> is not large enough or is not an empty existing Proc-file.	Re-enter command with a different <i>name</i> .

Table 4-22. QUERY/3000 RENAME Command Messages

MESSAGE	MEANING	ACTION
DUPLICATE PROCEDURE NAME	New procedure name already exists on the current Proc-file.	Re-enter command with a different procedure name.
EXPECTED A ','	Comma must follow the old procedure name.	Re-enter the command.
ILLEGAL NAME	Referenced procedure name contains more than eight characters, contains an illegal character, or consists of a reserved word.	See the CREATE command (Section V) for naming rules. Re-enter statement with correct name.
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?	Proc-file being accessed by another user.	Reply NO to abort the command. Reply YES to be placed in wait queue until all users ahead of you in queue have accessed the file.

Table 4-23. QUERY/3000 REPORT Command Messages

MESSAGE	MEANING	ACTION
ADD OPTION ALREADY SPECIFIED	The ADD option has been entered twice for the same total statement.	Re-enter statement with a single ADD option.
ADD OPTION NOT ALLOWED IN STATEMENT	Statement other than total contains an ADD option.	Re-enter statement without ADD.
ALPHA EDIT MASK EXCEEDS MAXIMUM SIZE	Number of characters in an alphanumeric edit mask exceeds the length of the output device record.	Correct the edit mask length by changing the edit statement.
ARITHMETIC OVERFLOW [ON Rn]	Sum of data item values being totalled (using a total statement ADD option) exceeds 20 digits. A register arithmetic operation caused an underflow/overflow condition on the specified register number <i>n</i> .	REPORT command terminates. Re-enter the command or alter the report procedure and execute it again.

Note: For messages in table 4-23, if the statement in error is the first report statement, the command terminates. If it is not the first statement, you can re-enter the statement which caused the error as directed in the ACTION column. If the REPORT is a procedure, you must correct the statements later using ALTER if you want them to be permanently changed.

Table 4-23. QUERY/3000 REPORT Command Messages (Continued)

MESSAGE	MEANING	ACTION
AVERAGE OPTION ALREADY SPECIFIED	The AVERAGE option has been entered twice for the same total statement.	Re-enter the statement with a single AVERAGE option.
AVERAGE OPTION NOT ALLOWED IN STATEMENT	Statement other than total contains an AVERAGE option.	Re-enter the statement without AVERAGE.
COMMAND TABLE OVERFLOW	REPORT command contains more than 100 statements.	Re-enter report with fewer statements.
CONSTANT LITERAL TABLE OVERFLOW	Number of literal character strings appearing in all the header, detail, group, and total statements have exceeded the capacity of the table used to hold them.	Revise the report and re-enter the command.
CONTROL BREAK INCONSISTENCY	Level numbers of total or group statements do not match properly with sort statement level numbers.	Revise the report and re-enter the command.
COUNT OPTION ALREADY SPECIFIED	The COUNT option has been entered twice for the same total statement.	Re-enter the statement with a single COUNT option.
COUNT OPTION NOT ALLOWED IN STATEMENT	Statement other than total contains a COUNT option.	Re-enter the statement without COUNT.
DATA ITEM NOT RETRIEVED	Statement has referenced a data item that is not a member of the data entries selected by the last FIND command.	Revise the statement and re-enter the command or statement or use the appropriate FIND command and re-enter the REPORT command.
DUPLICATE EDIT STATEMENTS	More than one edit statement with the same number has been entered.	The second edit statement is ignored unless the REPORT is a procedure. If so, reply <i>return</i> to prompt. Alter the procedure later.
DUPLICATE SORT DATA ITEM NAME	More than one sort statement contains the same data item name.	Revise report and re-enter the command.
EDIT MASK ERROR	A numeric edit mask contains characters in the wrong order.	Correct the mask and re-enter the edit statement.
EDIT OPTION ALREADY SPECIFIED	Statement contains more than one edit statement reference.	Revise statement and re-enter it.

Table 4-23. QUERY/3000 REPORT Command Messages (Continued)

MESSAGE	MEANING	ACTION
EDIT OPTION ERROR	Edit statement reference is not between E0 and E9 inclusive.	Revise statement and re-enter it.
EDIT OPTION NOT ALLOWED IN STATEMENT	Edit statement has been referenced in a statement which contains a literal as a <i>print element</i> .	Revise report and re-enter command.
END PRINT POSITION ERROR	The end print position specified contains an illegal digit, is equal to zero, or is greater than the record size of the output device.	Revise the statement and re-enter it.
EXPECTED A LITERAL VALUE	QUERY expected to find a literal character string in the statement.	Revise the statement and re-enter it.
EXPECTED A “,”	Comma is missing from a statement.	Re-enter the statement.
EXPECTED A “;”	More than one statement appears on the same line without being separated by a semicolon.	Re-enter the statements on separate lines or separated by semi-colons.
HEADERS OVERFLOW A PAGE	Header statements print more header lines of information (counting line skipping) than can fit on one output page.	Revise the header statements and re-enter the command.
ILLEGAL ASCENDING/DESCENDING CODE	ASC or DES sort parameter is missing or incorrectly spelled.	Revise sort statement and re-enter it.
ILLEGAL DATA ITEM NAME <i>name</i>	Data item named <i>name</i> does not belong to data base currently being accessed, is not accessible to you based upon your password, or is not a member of the data set specified in the fully-qualified data item name.	Use a different data item name or change your password by using the PASSWORD= command.
ILLEGAL DATA SET NAME <i>name</i>	Data set called <i>name</i> does not belong to data base currently being accessed or is not accessible to you based upon your password.	Use a different data set name or change your password with the PASSWORD= command. Re-enter the command.

Table 4-23. QUERY/3000 REPORT Command Messages (Continued)

MESSAGE	MEANING	ACTION
ILLEGAL DATA TYPE <i>name</i>	Data type specified in a register statement is defined as U or X or is not Rn where <i>n</i> is a number from 0 to 9. <i>name</i> is the data item name.	Revise the register statement and re-enter it.
ILLEGAL ITEM LENGTH	Data item being referenced is not of the proper size and type to be processed by QUERY.	See Section I for description of acceptable data types.
ILLEGAL NAME	Name of a REPORT procedure exceeds eight characters or does not start with an alphabetic character.	Re-enter command with correct name.
ILLEGAL REGISTER OPERATOR	Operator specified is not one of the valid register operators.	See the register statement description in Section IV for a list of valid operators. Revise statement and re-enter it.
INCONSISTENCY BETWEEN OPTION AND EDIT STATEMENTS	Statement contains an edit statement label not used to define an edit statement.	Revise statement and re-enter command.
INVALID NUMERIC DIGIT	A numeric value specified an illegal digit or the value exceeds the maximum value.	Re-enter the statement.
LEVEL ERROR	Level number appearing in sort, group, or total statement is less than 1, greater than 5, or a header or detail statement level number is not between 1 and 9 inclusive.	Revise necessary statement and re-enter it.
LITERAL TOO LARGE	Literal character string exceeds the record size of the output device.	Revise statement containing string and re-enter it.
MORE THAN 5 FIELDS ARE BEING TOTALED	Total statements reference more than five different data items.	Revise necessary total statements and re-enter command.
NON-NUMERIC IN REAL VALUE	A non-numeric digit appears in the real value or exceeds the maximum allowable value. (Does not include values entered in scientific notation such as 12.44E+04.)	Re-enter the statement.

Table 4-23. QUERY/3000 REPORT Command Messages (Continued)

MESSAGE	MEANING	ACTION
NO. OF SORT ITEMS EXCEEDS LIMIT	Number of sort items defined exceeds the maximum of 66.	Revise report and re-enter command.
NOT A REPORT PROCEDURE	Procedure referenced in REPORT <i>procedure name</i> command is not a proper REPORT procedure.	Use DISPLAY or DISPLAY LIST to find the correct procedure name.
NOT A REPORT STATEMENT	Statement is not recognized as a valid report statement.	Revise statement and re-enter it.
NUMERIC EDIT MASK EXCEEDS 20 CHARACTERS	Numeric edit mask in an edit statement exceeds the maximum allowable 20 characters.	Revise the edit mask and re-enter the statement.
OPTION ERROR	Statement option is either illegal for the statement in which it appears, or the option is not recognized as valid.	Revise statement and re-enter it.
PARAMETER ERROR	The output control statement OUTPUT=LP has a bad format.	Revise statement and re-enter command.
RECORD HAS NOT YET BEEN FOUND	REPORT command has been executed before a FIND command has been entered to select entries for reporting.	Enter FIND command and re-enter REPORT command.
REPORT CANNOT BE GENERATED DUE TO ERRORS	REPORT command contains errors and will not generate a report.	Revise report and re-enter command.
REPORT INCOMPLETE — ITEM MISSING	Indicates that some of the data items selected by the FIND command may have been deleted by some other user prior to executing the REPORT command.	Re-enter the FIND and REPORT commands.
SAME LINES HAVE CONFLICTING REPORT OPTIONS <i>label</i>	Like statements (such as multiple statements labeled D2) contain the same statement option (such as SKIP A). A statement option may appear only once for statements concerning the same report line. <i>label</i> is the statement type and level.	Revise necessary statements and re-enter command.

Table 4-23. QUERY/3000 REPORT Command Messages (Continued)

MESSAGE	MEANING	ACTION
SCRATCH FILE $\left\{ \begin{array}{l} \text{READ} \\ \text{OPEN} \\ \text{WRITE} \end{array} \right\}$ ERROR <i>code</i>	Physical error has occurred during QUERY access of a scratch file. File is not accessible to user. <i>code</i> is an MPE file system code.	See FILE OPEN ERROR in table 6-2. Try command again.
SKIP OPTION ALREADY SPECIFIED	Skip option has been specified twice in the same statement.	Revise statement and re-enter command.
SKIP OPTION ERROR	Skip option is not SKIP A or SKIP B.	Revise statement and re-enter command.
SKIP OPTION NOT ALLOWED IN HEADER	Header statements may not contain SKIP options.	Revise statement and re-enter command.
SORTLIB: <i>message</i>	Error has occurred in one of the SORT/3000 procedures operating in behalf of QUERY. <i>message</i> is the SORT/3000 error message as specified in the <i>SORT/3000 Reference Manual</i> .	Consult the SORT/3000 manual and try the command again.
SORT LEVEL MISSING OR DUPLICATE <i>label</i>	Group or total statements reference sort statements which either do not exist or appear twice in the REPORT command. For example, S1 appears twice, or a total statement is labeled T3 when no S3 statement exists. <i>label</i> is the statement type and level.	Revise necessary statements and re-enter command.
SPACE OPTION ALREADY SPECIFIED	A SPACE A or SPACE B option appears twice in the same statement.	Revise statement and re-enter command.
SPACE OPTION ERROR	SPACE option is not SPACE A <i>n</i> or SPACE B <i>n</i> , where <i>n</i> is 1 to 5 inclusive.	Revise statement and re-enter command.
STATUS=%XXXXXX P=%XXXXXX TRAP=%XXXXXX	Hardware trap has occurred which was not enabled by QUERY and cannot be handled by QUERY. May be caused by hardware failure. QUERY terminates. XXXXXX is an octal number. Status is the status register, P is the P-register and TRAP is the MPE trap number.	Consult with the data base administrator or system manager.

Table 4-24. QUERY/3000 UPDATE Command Messages

MESSAGE	MEANING	ACTION
ATTEMPTED DELETION OF CHAIN HEAD	Attempt has been made to delete a master search item value that still exists as a detail search item value in one or more linked detail data sets.	If desired, delete detail entries first and then master entry.
ATTEMPTED MODIFICATION OF A CRITICAL ITEM	UPDATE REPLACE command has attempted to change the value of a data item defined as a search or sort item.	Enter next command or delete entire entry and add again with new value for search or sort item.
ATTEMPTED MODIFICATION OF A READ-ONLY ITEM	UPDATE REPLACE command has attempted to modify a data item to which you have only read but not write access.	You cannot modify the item unless you supply the appropriate password with the PASSWORD= command.
AUTOMATIC MASTER	UPDATE ADD command has attempted to add an entry to an automatic master data set.	Enter another command.
BUFFER OVERFLOW	Total length of all data items to be modified in data set exceeds 2048 words and has overflowed the buffer used to hold them. If UPDATE REPLACE, the command terminates.	Shorten command and re-enter it.
DATA ITEM NOT RETRIEVED	UPDATE REPLACE command entered which references a data item that was not previously selected by a FIND command.	Use FIND command and re-enter UPDATE command.
DATA SET FULL	No more entries can be added to the data set.	Consult with the data base administrator.
DATA SET NOT WRITEABLE	Command entered attempting to modify a data item in a data set which you are only allowed to read but not write.	You must supply an appropriate password or enter a different command.
DELETE ALL RETRIEVED ENTRIES (YES OR NO)?	Asks for confirmation of UPDATE DELETE command just entered.	Reply YES to delete all entries selected by the most recent FIND command. Reply NO to abort the command.

Table 4-24. QUERY/3000 UPDATE Command Messages (Continued)

MESSAGE	MEANING	ACTION
DUPLICATE ITEM IGNORED <i>name</i>	Same data item has appeared more than once in an UPDATE REPLACE command. Only first occurrence is used.	None.
EXPECTED A LITERAL VALUE	Value in quotes following data item name is missing in an UPDATE REPLACE command.	If prompted with >>, re-enter the data item name and value. Otherwise, re-enter the entire command.
EXPECTED A "="	Equal sign (=) missing from an UPDATE REPLACE command.	Re-enter command.
EXPECTED A ",'"	Comma is missing after UPDATE ADD and before data set name.	Re-enter command.
EXPECTED A "';"	Multiple data item name/data item value pairs exist in an UPDATE REPLACE command and are not separated by semicolons.	Re-enter command.
FULL CHAIN FOR <i>item/set</i>	Attempt has been made to add a detail entry to a chain which has reached the maximum allowable number of entries (65535). Current attempt is ignored. <i>item</i> is detail data set search item name and <i>set</i> is master data set name.	Consult with data base administrator.
FULL MASTER FOR <i>item/set</i>	Attempt has been made to add a detail data entry with a search item value that does not match any existing search item value in the corresponding automatic master data set (<i>set</i>), and a new master entry cannot be created because the automatic master data set is full. <i>item</i> is the detail data set search item name.	Consult with the data base administrator.
ILLEGAL ACCESS	You do not have write access to the data base because your access mode does not allow it.	See Section I for a description of access modes and capabilities associated with each.

Table 4-24. QUERY/3000 UPDATE Command Messages (Continued)

MESSAGE	MEANING	ACTION
ILLEGAL DATA ITEM NAME <i>name</i>	Data item called <i>name</i> either does not appear in the data base being accessed or is not a member of the specified data set.	Re-enter command with correct data item name. Use FORM command to determine valid data item name.
ILLEGAL DATA SET NAME <i>name</i>	Data set called <i>name</i> is not a member of the data base currently being accessed.	Check the data set name by using the FORM command and change the data base name if necessary.
ILLEGAL ITEM LENGTH – ITEM IGNORED	Data item being referenced is not the proper size and type to be processed by QUERY. If the data item is a search or sort item, the command terminates.	See Section I for a discussion of data types supported by QUERY.
ILLEGAL NAME	UPDATE procedure name exceeds eight characters, contains an illegal character, or consists of a reserved word.	Use DISPLAY LIST to list the procedures in the Proc-file.
ILLEGAL UPDATE TYPE	Character string following UPDATE is not ADD, REPLACE, or DELETE.	Re-enter the command.
INPUT ERROR – REENTER	Illegal character has been input and line is ignored.	Re-enter the command or line.
INPUT TOO LONG – TRUNCATED	Data item value entered is longer than the maximum defined length for the data item. Value is truncated on the right and processing continues.	None.
INVALID NUMERIC DIGIT	Value entered for a data item defined as type Z or P contains an invalid or non-numeric digit.	Check value and re-enter command.
MISSING CHAIN HEAD FOR <i>item/set</i>	Attempt made to add an entry to a detail data set linked to the specified master data set without a corresponding entry in the master data set for the search item value. <i>item</i> is the detail data set search item and <i>set</i> is the master data set name.	Add an entry with the same search item value to the master data set and then re-enter this command.

Table 4-24. QUERY/3000 UPDATE Command Messages (Continued)

MESSAGE	MEANING	ACTION
NON-NUMERIC IN REAL VALUE	Value entered for a data item defined as type real contains an illegal character, or the value is larger than the maximum allowable value for the data type.	See Section I for a discussion of data types and ranges. Re-enter command with correct value.
NOT AN UPDATE PROCEDURE	Referenced procedure is not a proper UPDATE procedure.	Use DISPLAY and DISPLAY LIST to determine correct procedure name. Re-enter command.
NUMERIC VALUE ERROR – ITEM IGNORED	Value entered contains an illegal character or too many characters.	Check value and re-enter command.
REAL VALUE ERROR – ITEM IGNORED	Real value contains an illegal character or is not in the proper range for the data item defined.	See Section I for a discussion of data types and ranges. Re-enter command with correct value.
RECORD HAS NOT YET BEEN FOUND	UPDATE REPLACE or UPDATE DELETE command has been entered prior to selecting entries with a FIND command.	Use the FIND command and then re-enter the UPDATE command.
SCRATCH FILE READ ERROR <i>code</i>	Physical error has occurred while MPE file system reading from a QUERY scratch file. File is not accessible to user. <i>code</i> is an MPE file system code.	See FILE OPEN ERROR in table 6-2. Try command again or consult with data base administrator or system manager.
UPDATE TO MORE THAN ONE SET	UPDATE { DELETE } { REPLACE } command used on entries selected with FIND CHAIN command.	You can only use the FIND command to select entries to be replaced or deleted.
WHAT IS THE VALUE OF <i>name</i>	Prompt for a data item value. <i>name</i> is the name of the data item in the UPDATE command that contains a null data item value.	Supply the requested data item value.

Table 4-25. QUERY/3000 XEQ Command Messages

MESSAGE	MEANING	ACTION
END OF XEQ FILE	End-of-file encountered in XEQ file.	None.
EXPECTED A “,”	Comma must follow the file-name when using the optional NODATA parameter.	Re-enter command with comma.
FILE NOT TYPE ASCII	The XEQ file is not an ASCII file.	Check the file and re-enter the command with the correct file type.
ILLEGAL NAME	XEQ filename is not valid (begins with a non-alphabetic character.)	Check the name and the MPE Commands Reference Manual for valid file names.
PARAMETER ERROR	Optional parameter NODATA is not recognizable.	Re-enter command with parameter spelled properly.

UTILITY ERROR MESSAGES

SECTION

V

A set of utility programs are used in conjunction with MPE to perform a variety of functions. This section contains the error messages issued by the following utility programs:

MPE Segmenter	Table 5-1
EDIT/3000	Table 5-2
FCOPY/3000	Table 5-3
SORT/MERGE/3000	Tables 5-4 through 5-7
DEBUG/STACKDUMP	Table 5-8
TRACE/3000	Table 5-9
SADUTL	Table 5-10, 11
LISTLOG2	Table 5-12
DISKED2	Table 5-13
PATCH	Table 5-14
SLPATCH	Table 5-15
HP 3000 Compiler Library	Table 5-16
KASMUTIL	Table 5-17
SPOOK	Table 5-18
MEMLOGAN	Table 5-19
MENTIMER	Table 5-20



SEGMENTER ERROR MESSAGES

Segmenter errors, encountered when using the MPE Segmenter Subsystem, are reported in messages of the following format:

$\left\{ \begin{array}{l} \text{*** ERROR ***} \\ \text{*** FILE ERROR} \\ \text{*** WARNING ***} \end{array} \right\} \quad [\text{numericparam}] [\text{stringparam}]$

ERROR *msgnum* *message*

The *msgnum* parameter identifies the message by an index number, appearing in table 5-1. The *message* parameter is the message text, also appearing in table 5-1 opposite the index number. The *numericparam* and *stringparam* parameters have meanings that depend on the particular message, and are defined in the descriptions of messages in table 5-1.

An example of a Segmenter error message which contains both *numericparam* (40) and *stringparam* (AUX. USL FILE) parameters appears below. The message number is 84.

numericparam
↓
stringparam

*** FILE ERROR 40 AUX. USL FILE
ERROR #84 UNEXPECTED I/O ERROR

↑
msgnum

message

Table 5-1. Segmenter Error Messages

ERROR CODE	ERROR MESSAGE	MEANING	ACTION
0	ILLEGAL ENTRY	Bad USL generated by compiler. <i>numericparam</i> is decimal address of entry in USL.	See table 2-7 for meaning of FCHECK value.
1	ILLEGAL HEADER	Bad USL generated by compiler.	
2	ATTEMPT TO EXCEED MAXIMUM DIRECTORY SIZE	USL file maximum directory size is %77777.	
3	AVAILABLE DIRECTORY SPACE EXHAUSTED	USL file too small. Compiler output may be in error.	
4	AVAILABLE INFO SPACE EXHAUSTED	USL file too small. Compiler output may be in error.	
5	USL FILE NOT DESIGNATED	Tried to -USE, -PREPARE, -NEWSEG, -LISTUSL, -COPY, -ADDR, -ADDSL, -HIDE, -REVEAL or -PURGEFRBM and USL not open.	
6	ILLEGAL USL FILE SPECIFICATION	USL file length is less than 5 records or greater than 32727 records.	
7	UNABLE TO OPEN USL FILE	FOPEN fail in -AUXUSL, -BUILDSL or -USL. <i>numericparam</i> is FCHECK value.	
8	INVALID USL FILE	File code is not USL or USL file is bad.	
9	UNABLE TO CLOSE USL FILE	FCLOSE failure during -EXIT. <i>numericparam</i> is FCHECK value.	
10	UNABLE TO CLOSE SL FILE	FCLOSE fail during -EXIT or on previous SL during -SL. <i>numericparam</i> is FCHECK value.	
11	AVAILABLE FILE SPACE EXHAUSTED	RL or SL file is full.	
12	ENTRY POINT ALREADY DEFINED	<i>stringparam</i> is entry name.	
13	SEGMENT CONTAINS PROGRAM UNITS OTHER THAN PROCEDURES	Outer block is present.	
14	SEGMENT REQUIRES GLOBAL STORAGE	FORTRAN GLOBAL, or SPL GLOBAL or OWN variables were specified. <i>stringparam</i> is entry name.	
15	SEGMENT ALREADY DEFINED	-ADDSL segname and segname already exists in segment. <i>numericparam</i> is segname.	
16	SL FILE NOT DESIGNATED	Tried to -PURGESL, -ADDSL or -LISTSL and SL not open.	
17	ILLEGAL SL FILE SPECIFICATION	SL file length is less than 4 records or greater than %77777 records.	
18	UNABLE TO OPEN SL FILE	FOPEN failure during -BUILDSL or -SL. <i>numericparam</i> is FCHECK value.	
19	INVALID SL FILE		

Table 5-1. Segmenter Error Messages (Continued)

ERROR CODE	ERROR MESSAGE	MEANING	ACTION
20	ILLEGAL RL FILE SPECIFICATION	RL file length is less than 4 records or greater than %77777 records.	See table 2-7 for meaning of FCHECK value.
21	RL FILE NOT DESIGNATED	Tried to -ADDRL, -LISTRL or -PURGERL without opening RL.	
22	INVALID RL FILE	File code is not RL or RL file is bad.	
23	UNABLE TO CLOSE RL FILE	FCLOSE Failure. <i>numericparam</i> is FCHECK value.	
28	PROCEDURE HAS NOT USABLE ENTRY POINT		See table 2-7 for meaning of FCHECK value.
30	UNABLE TO OPEN RL FILE	FOPEN Failure. <i>numericparam</i> is FCHECK value.	
32	INVALID PROGRAM FILE	File code is not program.	
33	ILLEGAL CAPABILITY SPECIFICATION	Program capability specification is greater than user's.	
34	MORE THAN ONE EXTENT USED	Not all code is in one extent. Program will not run unless code is contiguous on disc (the loader will detect this problem).	Build a new program file with larger extents. This is a WARNING message.
35	NO PROGRAM TO PREPARE	No program in USL.	See table 2-7 for meaning of FCHECK value.
36	UNABLE TO CLOSE PROGRAM FILE	FCLOSE failure. <i>numericparam</i> is FCHECK value.	
37	UNABLE TO OPEN PROGRAM FILE	FOPEN failure. <i>numericparam</i> is FCHECK value.	See table 2-7 for meaning of FCHECK value.
38	DATA SEGMENT OVERFLOW	Data is greater than %37777.	
39	TOO MANY CODE SEGMENTS	More than 255 segments in an SL, or more than 152 segments in a program file. (The structure of a program file is limited to 152 segments.)	
40	CODE SEGMENT OVERFLOW	Code segment greater than %37774.	
41	STT OVERFLOW	Too many PCAL instructions. <i>stringparam</i> is entry name where overflow occurred.	
42	SEGMENT HAS NO USABLE ENTRY POINT		
43	UNABLE TO ACCESS PROCEDURE	Illegal P-Label or params not matching.	
44	REQUIRES PRIVILEGED MODE CAPABILITY	User needs privileged mode capability to add privileged segment.	
45	ACTUAL PARAMETERS INCOMPATIBLE WITH FORMAL PARAMETERS	(FORTRAN Program) <i>stringparam</i> is procedure name.	

Table 5-1. Segmenter Error Messages (Continued)

ERROR CODE	ERROR MESSAGE	MEANING	ACTION
46	PROGRAM UNIT CONTAINS FATAL ERROR	<i>stringparam</i> is unit name.	None. This is a WARNING message. This is a WARNING message.
47	PROGRAM UNIT CONTAINS NON-FATAL ERROR	<i>stringparam</i> is unit name.	
48	CODE SEGMENT MAY BE TOO LARGE		
60	NO OUTER BLOCK IS ACTIVE		
61	MORE THAN ONE OUTER BLOCK IS ACTIVE		
62	MORE THAN ONE OUTER BLOCK HAS ACTIVE ENTRY POINTS		Reduce the number of COMMON data labels.
63	EXTERNAL VARIABLE NOT DECLARED GLOBAL	<i>stringparam</i> is entry name.	
64	EXTERNAL VARIABLE INCOMPATIBLE WITH GLOBAL VARIABLE	<i>stringparam</i> is entry name.	
66	TOO MANY COMMON DATA LABELS	(BASICOMP or FORTRAN program) The number of COMMON data labels has caused the primary DB area to exceed 255 (decimal).	
67	COMMON DECLARED WITH DIFFERENT SIZE	<i>stringparam</i> is common name.	
68	ATTEMPT TO USE BLOCK DATA ON NON-EXISTENT COMMON	(FORTRAN program)	
69	ATTEMPT TO USE BLOCK DATA ON INCOMPATIBLE COMMON	(FORTRAN program)	
70	ILLEGAL STACK SIZE	Stack size less than 0.	
71	ILLEGAL DL SIZE	DL size less than 0.	
72	ILLEGAL MAXDATA SIZE	MAXDATA less than 0.	
80	INSUFFICIENT STORAGE	Could not obtain enough DL area (system problem). Program is too large for the segmenter.	The segmenter (SEGPROG) must be reprepared with a larger DL.
81	ILLEGAL PATCH	Bad code generated by a compiler.	
82	UNABLE TO OPEN SCRATCH FILE	Scratch area used to prepare code from USL before moving to SL file. <i>numericparam</i> is FCHECK value.	
83	UNABLE TO OPEN LIST FILE	FOPEN failure. <i>numericparam</i> is FCHECK value.	See table 2-7 for meaning of FCHECK value.

Table 5-1. Segmenter Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
84	UNEXPECTED I/O ERROR	<i>numericparam</i> is FCHECK value and <i>stringparam</i> is file type. Files opened are: USL, AUX USL, SL, RL, RL LIBRARY, PROGRAM, LIST and SCRATCH files.	
86	ITEM DIFFERENT FROM CLASS SPECIFICATION	One of the following occurred: 1. Tried to -COPY <i>item</i> and <i>item</i> class differs from class specified. 2. Tried to -PURGERBM <i>item</i> and <i>item</i> class differs from class specified. 3. Tried to -USE <i>item</i> and <i>item</i> class differs from class specified.	
87	ITEM NOT PRIMARY ENTRY POINT	Tried to -ADDRL <i>item</i> and <i>item</i> not primary entry.	
88	INCOMPATIBLE ITEM TYPE	One of the following occurred: 1. Tried to -HIDE <i>item</i> and <i>item</i> not entry point. 2. Tried to -NEWSEG <i>item</i> and <i>item</i> not procedure. 3. Tried to -PURGERBM <i>item</i> and <i>item</i> must be UNIT.	
89	INVALID CLASS SPECIFICATION	One of the following occurred: 1. Tried to -COPY ENTRY. Must be UNIT or SEGMENT. 2. Tried to -PURGERL SEGMENT (not allowed). 3. Tried to -PURGESL UNIT (not allowed).	
93	UNABLE TO LOCATE ITEM	One of the following occurred: 1. Can't find <i>item</i> in AUXUSL for -COPY. 2. Can't find <i>segname</i> in USL for -ADDSL. 3. Can't find <i>segname</i> in USL for -ADDSL. 4. Can't find <i>name</i> in USL for -HIDE and -REVEAL. 5. Can't find <i>newsegname</i> in USL for -NEWSEG. 6. Can't find <i>rname</i> in RL for -PURGERL. 7. Can't find <i>name</i> in USL for -USE.	
110	SEGMENT CURRENTLY LOADED	Segment referenced is in use and has been loaded by the loader.	
111	SEGMENT CONTAINS EXTERNAL VARIABLE	<i>stringparam</i> is entry name.	
112	SEGMENT CONTAINS COMMON	<i>stringparam</i> is entry name.	
113	SEGMENT CONTAINS LOGICAL UNITS	FORTRAN program contains reference to unit numbers.	
120	AUX USL FILE NOT DESIGNATED	Tried to -COPY and AUXUSL not open.	

EDIT/3000 ERROR MESSAGES

An error indication is produced whenever an error occurs during EDIT/3000 operation.

In an interactive session, only the error number is displayed by EDIT/3000, as, for example,

14

To request the complete error message, type any printing character (except a colon) before pressing RETURN.

For example,

*14*L

INVALID LINE NUMBER

To skip the error message, merely press RETURN.

In a batch job, the complete error message is displayed by EDIT/3000 on the standard list device.

Two types of errors can occur: *soft* and *hard*. *Soft* errors do not cause an EDIT/3000 command function to terminate; *hard* errors do.

Table 5-2 contains a list of all error messages that can occur during EDIT/3000 operation. The first column contains the error number. The type of error (soft or hard) is shown in the second column. The error message is contained in the third column and the probable cause is shown in the fourth column. The last column contains corrective action information which will help you in initiating recovery procedures.

Each error that relates to an MPE/3000 file intrinsic is preceded by a File Information Display. For these errors, the MPE/3000 *errorcode* follows the error message in parentheses. The meaning of *errorcode* can be found in section II, table 2-7 File System (FCHECK) Error Codes. Refer to appendix A for a discussion of the File Information Display.

Table 5-2. EDIT/3000 Error Messages

CODE	TYPE	MESSAGE	MEANING	ACTION
1	HARD	INVALID COMMAND NAME	Command name incorrect.	Re-enter the command.
2	HARD	INVALID OPTION	Command parameter incorrect.	Re-enter the command.
3	HARD	MISSING PARAMETER	Command parameter needed.	Re-enter the command.
4	HARD	FILE NOT ACCESSIBLE (<i>errorcode</i>)	File requested is not accessible due to the <i>errorcode</i> reported.	Check the <i>errorcode</i> in table 2-7, FCHECK codes.
5	HARD	FILE NOT TYPE ASCII	File requested is a binary file.	Terminate EDIT/3000 operation, then run a program such as the HP 3000 File Copier to create an ASCII version of the file.
6	HARD	CHARACTER ADJUSTMENT RUNS OFF OF FILE	A character string is too long.	Verify LEFT, RIGHT, LENGTH options in effect and change accordingly, or change the string.
7	HARD	READ ERROR ON TEXT FILE (<i>errorcode</i>)	File cannot be read due to the <i>errorcode</i> shown.	Check the <i>errorcode</i> in table 2-7, FCHECK codes, and try again. If error persists, copy error-free portions of TEXT file with TEXT command and use ADD command to correct the portion that is not read.
8	SOFT	ADJUSTMENT RUNS OFF OF FILE	Command would move pointer off either end of WORK file.	Verify FIRST and LAST options in effect and change accordingly or correct command.
9	HARD	SYNTAX ERROR IN TEXT POSITION EXPRESSION	A <i>position</i> parameter is incorrect.	Re-enter the command.

Table 5-2. EDIT/3000 Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
10	SOFT	ABSOLUTE COLUMN POSITION OUT OF RANGE	A <i>column</i> parameter is outside the LEFT, RIGHT margins.	Verify LEFT, RIGHT options in effect and change accordingly or re-enter the command.
11	SOFT	POSITION NOT FOUND	A <i>position</i> does not exist in the WORK file.	List the lines where the <i>position</i> should be and re-enter the command accordingly.
12	HARD	OVERSIZED LINE (<i>linenumber</i>)	The line exceeds the LEFT, RIGHT, or LENGTH options in effect.	Correct the LEFT, RIGHT, or LENGTH options and re-enter the command.
13	HARD	TIMEOUT ERROR	WHILE command construct wrong.	Re-enter the command.
14	HARD	INVALID LINE NUMBER	A <i>linenumber</i> parameter is wrong under the SET FORMAT option in effect or contains an incorrect character.	Correct the parameter or change the SET FORMAT option. TEXT the file in UNNUMBERED, examine and correct; then KEEP, UNNUMBERED.
15	SOFT	COMMAND WILL NOT REPLACE OR INTERLEAVE LINES	A <i>linenumber</i> parameter in an ADD, GATHER, or JOIN command references a line that already exists.	List the line number, then re-enter the command with correct <i>line-number</i> parameter.
16	SOFT	WARNING - LINE <i>linenumber</i> EXTENDS PAST <i>column</i>	A line extends beyond the RIGHT margin option in effect.	Change the RIGHT or LENGTH options, or correct the command, or modify the line.
17	HARD	UNMATCHED END COMMAND	A BEGIN-END pair is incorrect.	Correct the BEGIN-END command pairs.
18	HARD	INSUFFICIENT LINE NUMBERS FOR GATHER OR JOIN - NOT PERFORMED	Not enough line numbers are available in the WORK file for a GATHER or JOIN where a TO <i>linenumber</i> parameter has been specified.	Renumber the WORK file lines to accommodate the command, or re-enter the command with a smaller increment.
19	HARD	FALSE RETURN FROM EDITOR PROCEDURE	A procedure has returned a value of false.	See PROCEDURE command in Section IV, <i>EDIT/3000 Reference Manual</i> .
20	HARD	UNDELIMITED STRING	Incorrect delimiters enclosing a string.	Re-enter the command.
21	SOFT	STRING NOT FOUND BEFORE LIMIT	A string was not found within the <i>range</i> specified or does not exist in the WORK file.	Use the FIND FIRST command, then try again. Verify that string is correct.
22	SOFT	LINE DOES NOT EXIST	The line does not exist in the WORK file.	List the line before and the line after the line, with NO TEXT. ADD <i>linenumber</i> , if necessary.
23	HARD	FAILURE TO OPEN TEXT FILE (<i>errorcode</i>)	File requested with a TEXT command was not opened due to the <i>errorcode</i> reported.	Check the <i>error code</i> in table 2-7, FCHECK codes.
24	HARD	NON-EDITABLE FILE TYPE (<i>filecode</i>)	The <i>filecode</i> identifies the file as a non-editable type.	See the <i>MPE Ininsics Reference Manual</i> .
25	HARD	SCRATCH FILE OPEN FAILURE (<i>errorcode</i>)	Work file could not be opened due to <i>errorcode</i> .	Check for <i>errorcode</i> in table 2-7, FCHECK codes.

Table 5-2. EDIT/3000 Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
26	HARD	GETDSEG FAILURE <i>reason (see below)</i> SEGMENT OF SAME IDENTITY ALREADY EXISTS ILLEGAL LENGTH SPECIFIED TOO MANY DATA SEGMENTS INSUFFICIENT STORAGE FOR SIZE	Stated in the <i>reason</i> appended to message.	See the <i>MPE Intrinsic Reference Manual</i> . System re-configuration may be necessary.
27	SOFT	AN E.O.D. RECEIVED BEFORE TEXT FILE END	An :EOD record was encountered before the physical end-of-file occurred.	None - warning only.
28	HARD	SCRATCH FILE READ ERROR (<i>errorcode</i>)	WORK file not read due to <i>errorcode</i> reported.	Check for <i>errorcode</i> in table 2-7, FCHECK codes.
29	HARD	INVALID LINE NUMBER ON NUMBERED TEXT OR JOIN FILE - RECORD (<i>number</i>)	Sequence numbers incorrect for the requested function.	Use following commands: TEXT <i>filename</i> , UNN or JOIN <i>filename</i> , UNN.
30	HARD	DMOVOUT ERROR	Data segment management error.	Notify the System Manager.
31	HARD	SCRATCH FILE WRITE ERROR (<i>errorcode</i>)	WORK file could not be written to due to <i>errorcode</i> .	Check for <i>errorcode</i> in table 2-7, FCHECK codes.
32	HARD	DMOVIN ERROR	Data segment management error.	Notify the System Manager.
33	HARD	INVALID COLUMN RANGE (FIRST FOLLOWS SECOND)	The <i>range</i> parameter is not in ascending order.	Correct the <i>range</i> parameter of the command.
34	SOFT	WARNING - HOLD FILE IS EMPTY	HOLD file is empty.	None - warning only.
35	HARD	FAILURE TO LOAD LIBRARY PROCEDURE (nn)	The procedure requested with a PROCEDURE command could not be loaded.	Check the SL library. Check meaning of nn in table 2-8, loader errors.
36	HARD	SCRATCH FILE IS FULL. KEEP, THEN TEXT AGAIN	The WORK file has no more space available.	KEEP WORK file. TEXT file back into WORK file.
37	HARD	INVALID INTEGER	A <i>linenumber</i> parameter is incorrect or is outside the range defined by the SET FORMAT option in effect.	Correct the <i>linenumber</i> parameter.
38	HARD	INVALID RECORD-LINE PAIR (SUBSYSTEM PROBLEM)	Data segment management error.	Notify the System Manager.
39	HARD	RANGE IS NULL OR FIRST POSITION FOLLOWS SECOND	The <i>range</i> parameter is not in ascending order.	Correct the <i>range</i> parameter.
40	HARD	UNDEFINED TEXT	The WORK file is empty. KEEPQ may have just been executed.	Use an ADD, JOIN, or TEXT command to enter text into WORK file.
41	HARD	FAILURE TO OPEN KEEP FILE (<i>errorcode</i>)	KEEP command could not be executed due to <i>errorcode</i> reported.	Check KEEP command. If command OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
42	HARD	WRITE ERROR ON KEEP FILE (<i>errorcode</i>)	File requested by KEEP command could not be written to due to <i>errorcode</i> reported.	Check KEEP command. If command OK, check <i>errorcode</i> in table 2-7, FCHECK codes.

Table 5-2. EDIT/3000 Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
43	HARD	OUT OF SEQUENCE LINE NUMBER IN TEXT FILE (<i>linenumber</i>)	Line numbers in TEXT file are incorrect.	Use TEXT <i>filename</i> , UNNUMBERED command. Correct line numbers. KEEP <i>filename</i> , UNNUMBERED.
44	SOFT	LINE NUMBER ZERO CANNOT BE ACCESSED	A command attempted to access line zero.	Re-enter the command as FIND FIRST.
45	HARD	READ ERROR ON COMMAND FILE (<i>errorcode</i>)	Commands could not be read from the file requested due to the <i>errorcode</i> reported.	Verify that file exists and is correct. If correct, check <i>errorcode</i> in table 2-7, FCHECK codes.
46	HARD	COMMAND CONTINUES PAST 256 CHARACTERS	Command record too long.	Re-enter the command record.
47	HARD	FAILURE TO OPEN USE FILE (<i>errorcode</i>)	USE command could not open USE file referenced due to <i>errorcode</i> reported.	Check that <i>filename</i> is correct. If OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
48	HARD	FAILURE TO OPEN WHILE FILE (<i>errorcode</i>)	WHILE command could not execute due to <i>errorcode</i> reported.	Check WHILE command. If OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
49	HARD	WRITE ERROR ON WHILE FILE (<i>errorcode</i>)	WHILE command could not execute due to <i>errorcode</i> reported.	Check the WHILE command expressions. If OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
50	HARD	WHILE FILE OVERFLOW	Too many expressions in a WHILE command block.	Write the WHILE command expressions into a USE file.
51	HARD	FAILURE TO OPEN JOIN FILE (<i>errorcode</i>)	JOIN file could not be opened due to <i>errorcode</i> reported.	Check <i>errorcode</i> in table 2-7, FCHECK codes.
52	HARD	READ ERROR ON JOIN FILE (<i>errorcode</i>)	JOIN file could not be read due to <i>errorcode</i> reported.	Check <i>filename</i> parameter, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
53	HARD	TIME-OUT ON WHILE ITERATION	SET TIME = <i>limit</i> has been exceeded or you typed CONTROL Y.	Correct WHILE command or increase iterations allowed by altering SET TIME command.
54	HARD	SYNTAX ERROR IN ABSOLUTE COLUMN POSITION EXPRESSION	A <i>column</i> parameter is incorrect.	Correct the parameter.
55	HARD	READ ERROR ON HOLD FILE (<i>errorcode</i>)	HOLD file could not be read due to <i>errorcode</i> reported.	Check HOLD command, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
56	HARD	READ ERROR ON INPUT (<i>errorcode</i>)	TEXT or JOIN file could not be read due to <i>errorcode</i> reported.	Check command and <i>filename</i> parameter, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
57	SOFT	END OF INPUT FILE	Physical end-of-file reached.	None-information only.
58	HARD	FAILURE TO OPEN HOLD FILE (<i>errorcode</i>)	Hold file could not be opened due to <i>errorcode</i> reported.	Check HOLD command, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
59	HARD	WRITE ERROR ON HOLE FILE (<i>errorcode</i>)	HOLD file could not be written to due to <i>errorcode</i> reported.	Check HOLD command, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
60	HARD	FCLOSE FAILURE (<i>errorcode</i>)	A file could not be closed due to the <i>errorcode</i> reported.	Check <i>filename</i> parameter, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.

Table 5-2. EDIT/3000 Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
61	HARD	MAXIMUM LINE NUMBER EXCEEDED ON COBOL FILE - RENUMBER AND KEEP AGAIN	SET COBOL is in effect and line number maximum has been exceeded.	Renumber WORK file and try again.
62	HARD	UNABLE TO EDIT FILES OF THIS CODE TYPE (<i>filecode</i>)	File cannot be edited with this <i>filecode</i> .	Refer to :FILE command in MPE Commands reference manual or FOPEN in MPE Intrinsics reference manual for correct <i>filecode</i> value.
63	HARD	WRITE ERROR (<i>errorcode</i>) ON OUTPUT FILE	The <i>listfile</i> named could not be written on due to the <i>errorcode</i> reported.	Check <i>errorcode</i> in table 2-7, FCHECK codes.
64	HARD	POSITIONING ERROR ON WHILE FILE (<i>errorcode</i>)	A command in a WHILE block could not locate a position in a file due to the <i>errorcode</i> reported.	Check the <i>position</i> parameter of the command, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
65	HARD	POSITION BEYOND EOF ON WHILE FILE	A command in a WHILE block tried to go to a location beyond the end-of-file in the WORK file.	Correct the WHILE block.
66	HARD	FREEDSEG REQUEST DENIED	Data segment management error.	Notify the System Manager.
67	HARD	FRENAME ERROR ON TEXT FILE (<i>errorcode</i>)	The WORK file could not be renamed due to the <i>errorcode</i> reported.	Check the <i>filename</i> parameter, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
68	HARD	FRENAME ERROR ON KEEP FILE (<i>errorcode</i>)	The file could not be renamed due to the <i>errorcode</i> reported.	Check the <i>filename</i> parameter, if OK, check <i>errorcode</i> in table 2-7, FCHECK codes.
69	HARD	UNABLE TO UNLOAD PREVIOUS PROCEDURE	A procedure named in a PROCEDURE command could not be loaded because the previous procedure has not been unloaded.	Check the PROCEDURE command and any previous PROCEDURE commands. See the <i>EDIT/3000 Reference Manual</i> . Notify the System Manager.
70	SOFT	WARNING: WORK FILE IS TEMPORARY <i>reason</i> (See below) INSUFFICIENT SPACE IN GROUP/ACCOUNT USER DOES NOT HAVE SF CAPABILITY	The WORK file is temporary due to <i>reason</i> specified.	Check your library of files; your disc space may be exceeded and you may need to purge some files to make space.
71	HARD	KEEP FILE MUST BE WITHIN LOG-ON ACCOUNT	File name used in KEEP command cannot be qualified by an account name other than log-on account.	KEEP the file within the log-on account.
72	HARD	INVALID TAB OPTION	Syntax of a SET command TABS or TABCHAR parameter is incorrect: Tab stops must be within LEFT and RIGHT margins and must be specified in increasing order, TABS keyword must be followed by = or comma, tab list must be enclosed within left and right parentheses, number of tab stops cannot exceed 12, TABCHAR must be enclosed in quotes and cannot exceed one character.	Check SET command and reenter command with correct syntax.

FCOPY/3000 ERROR MESSAGES

FCOPY detects errors of two types: *potential problems* and *errors*.

Potential problems are such things as a conflict between the characteristics of the "from" file and those of the "to" file. When a potential problem is diagnosed, FCOPY prints a warning message followed, in a session, by a request for a user-decision as to whether or not to continue the operation:

DO YOU WISH TO CONTINUE THIS OPERATION? (IF SO, ANSWER YES)

If you answer YES, FCOPY attempts to perform the requested operation despite the potential problem. If you answer NO, FCOPY terminates the operation and prompts for the next command.

In a job, FCOPY bypasses the user-decision, assumes that the operation was submitted as intended, and continues the operation. (This is as if you had answered YES in a session.)

An *error* is caused by incorrect syntax or an illegal FCOPY function combination in an FCOPY command, or by MPE system malfunctions. When an error is diagnosed, FCOPY prints an error message and discontinues the operation. In a session, FCOPY prompts for the next command; in a job, both the FCOPY operation and the job are terminated.

Table 5-3 lists the warning and error messages in numeric order by the error code with a brief description of the message meaning and suggested recovery action.

Some FCOPY messages are followed by an MPE File Information Display. This display is described in appendix A.

Table 5-3. FCOPY/3000 Warning and Error Messages

CODE	MESSAGE	MEANING	ACTION
None	<CONTROL Y>	Acknowledges receipt of a CONTROL-Y entered during a session.	None.
None	READ ERROR FROM COMMAND INPUTFILE	An error occurred while reading an FCOPY command from \$STDIN.	<i>In a job:</i> Re-submit the job. <i>In a session:</i> Re-enter the command.
None	WRITE ERROR TO COMMAND LISTFILE	An error occurred while writing an FCOPY message to \$STDLIST.	More than likely nothing serious has occurred and all FCOPY operations have been performed successfully. If you want to be sure, however, do the following: <i>In a job:</i> Re-submit the job. <i>In a session:</i> Re-enter the most recent FCOPY command.
3	SYNTAX ERROR: IN SUBSET OPTION	The subset function was not specified properly.	<i>In a job:</i> Correct the command and re-submit the job. <i>In a session:</i> Re-enter the command using the correct format.
4	SYNTAX ERROR: IN TITLE OPTION	The title option of the display function was not specified properly.	
5	SYNTAX ERROR: IN IGNERR OPTION	The ignore errors function was not specified properly.	
6	SYNTAX ERROR: IN VERIFY OPTION	The verify function was not specified properly.	
7	SYNTAX ERROR: IN SKIPEOF OPTION	The skip end-of-file function was not specified properly.	
8	SYNTAX ERROR: IN COMPARE OPTION	The compare function was not specified properly.	
9	SYNTAX ERROR: IN NEW OPTION	The new file function was not specified properly.	
10	SYNTAX ERROR: IN HEX OPTION	The display hexadecimal function was not specified properly.	
11	SYNTAX ERROR: IN EBCDICOUT OPTION	The EBCDICOUT character translate function was not specified properly.	
12	SYNTAX ERROR: IN CHAR OPTION	The display character function was not specified properly.	



Table 5-3. FCOPY Warning and Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
60	SYNTAX ERROR: ILLEGAL USE OF *	The context used to specify * as a "from" file or "to" file is not valid.	<i>In a job:</i> Correct the command and re-submit the job. <i>In a session:</i> Re-enter the command using the correct format.
62	SYNTAX ERROR: FILE NAME TOO LONG	The "from" or "to" file name specified is longer than the 35 characters allowed in a fully-qualified file name with lockword.	
102	CAN'T CLOSE FROMFILE	MPE can't close the "from" file. This message is followed by an MPE file information display containing (among other things) an error number.	Look up the error number in the File System Error Table in the <i>MPE Ininsics Reference Manual</i> (HP part number 30000-90010) and act accordingly.
103	CAN'T CLOSE TOFILE	MPE can't close the "to" file. This message is followed by an MPE file information display containing (among other things) an error number.	
104	CAN'T SAVE NEW TOFILE	MPE can't close the "to" file as a permanent file. Either you do not have SF capability or there is not enough group, account, or system file space.	If you don't have SF capability, you can't perform the operation. If there is not enough file space, purge some unneeded files to free some file space.
105	CAN'T OPEN FROM FILE	MPE can't open the "from" file. This message is followed by an MPE file information display containing (among other things) an error number.	Look up the error number in the File System Error Table in the <i>MPE Ininsics Reference Manual</i> (HP part number 30000-90010) and act accordingly.
106	CAN'T OPEN TOFILE	MPE can't open the "to" file. This message is followed by an MPE file information display containing (among other things) an error number.	
107	VERIFY OR COMPARE OPTION: CAN'T GET READ ACCESS TO TOFILE	MPE can't get read access to the "to" file for a verify or compare operation. The read access specified in the file label has been overridden by an MPE :FILE command containing ACC=APPEND, ACC=OUT, or ACC=OUTKEEP.	Reset the particular :FILE command (using the MPE :RESET command) and re-try the operation.

Table 5-3. FCOPY Warning and Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
108	ERROR IN CALLING FGETINFO FOR FROMFILE	An error prevented MPE from obtaining information from the "from" file's label. This message is followed by an MPE file information display containing (among other things) an error number.	Look up the error number in the File System Error Table in the <i>MPE Intrinsic Reference Manual</i> (HP part number 30000-90010) and act accordingly.
109	ERROR IN CALLING FGETINFO FOR TOFILE	An error prevented MPE from obtaining information from the "to" file's label. This message is followed by an MPE file information display containing (among other things) an error number.	
110	IGNERR OPTION: FROMFILE NOT TAPE	The "from" file's device is not a magnetic tape unit.	The ignore errors function cannot be used in this case.
111	CAN'T GET READ ACCESS TO FROMFILE	MPE can't get read access to the "from" file. The read access specified in the file label has been overridden by an MPE :FILE command containing ACC=APPEND, ACC=OUT, or ACC=OUTKEEP.	Reset the particular :FILE command (using the MPE :RESET command) and re-try the operation.
112	CAN'T GET WRITE ACCESS TO TOFILE	MPE can't get write access to the "to" file. The write access specified in the file label has been overridden by an MPE :FILE command containing ACC=IN.	
113	SKIPEOF OPTION: FROMFILE NOT TAPE	The skip end-of-file function was specified for the "from" file and the "from" file device is not a magnetic tape unit.	If the intended "from" or "to" file is on magnetic tape, check the associated MPE :FILE command and the back reference to it.
114	SKIPEOF OPTION: TOFILE NOT TAPE	The skip end-of-file function was specified for the "to" file and the "to" file device is not a magnetic tape unit.	
115	SUBSET OPTION: STRING FALLS OUTSIDE OF FROMFILE RECSIZE	The <i>characterstring</i> or <i>patternlist</i> specified is greater than the record size of the "from" file. No such subset can exist in the specified "from" file.	Change the specified subset definition to a valid one and try the operation again.

Table 5-3. FCOPY Warning and Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
116	CAN'T GET LARGE ENOUGH BUFFER	There is not enough data space for the buffers needed by the requested operation. FCOPY uses the DL-DB area for variable sized buffers.	Ask the system manager what size data area was specified when FCOPY was prepared and rerun FCOPY specifying a larger MAXDATA= parameter. Also make sure that the system configuration will accommodate your record size in the maximum allowed data segment size.
117	SKIPEOF OPTION: ERROR WHILE SKIPPING IN FROMFILE	An error occurred while skipping end-of-file marks in the "from" file.	
118	SKIPEOF OPTION: ERROR WHILE SKIPPING IN TOFILE	An error occurred while skipping end-of-file marks in the "to" file.	Retry the operation.
119	SUBSET OPTION: ERROR WHILE SPACING IN FROMFILE	An error occurred while spacing through the "from" file.	
120	SUBSET OPTION: SUBSET STARTS OVER EOF BOUNDARY	The subset specified extends over an end-of-file mark or a tape mark boundary.	Change the specified subset definition to a valid one and try the operation again.
123	SUBSET OPTION: THIS INPUT DEVICE DOES NOT BACKSPACE	The specified subset requires backspacing in the "from" file but the device for that file is not a disc or magnetic tape.	Check the MPE :FILE command associated with the "from" file and the back reference to it.
124	READ ERROR IN FROM-FILE AT RECORD <i>recnum</i>	An error occurred while spacing through the "from" file in search of the start of a subset.	Retry the operation.
125	SUBSET OPTION: NUMERIC SUBSET IS EMPTY	A subset specified by <i>starting-record-number</i> , <i>number-of-records</i> , and/or <i>last-record-number</i> does not exist or contains no data.	Change the specified subset definition to a valid one and try the operation again.
126	VERIFY OPTION: ERROR WHILE REWINDING FROMFILE	An error occurred while spacing backward to the beginning of the "from" file at the start of a verify operation.	Retry the operation.

Table 5-3. FCOPY Warning and Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
127	VERIFY OPTION: ERROR WHILE REWINDING TOFILE	An error occurred while spacing backward to the beginning of the "to" file at the start of a verify operation.	Retry the operation.
128	EOF FOUND WHILE SPACING IN FROMFILE	An end-of-file mark was encountered while spacing through the "from" file in search of the start of a subset. This most often occurs when the "from" file is a blocked magnetic tape. For a blocked magnetic tape, the record numbers supplied in the SUBSET= parameter are used as block numbers.	Retry the operation specifying block numbers instead of record numbers. OR Reblock the tape so each block contains one record and then retry the operation.
129	EOF FOUND WHILE SPACING IN TOFILE	An end-of-file mark was encountered while spacing through the "to" file in search of the start of a subset during a compare or verify operation.	<i>Compare operation:</i> The "from" and "to" files are not identical. Display the "to" file to determine what it actually contains. <i>Verify operation:</i> The copy operation was not performed correctly. Retry the operation.
131	ERROR WHILE WRITING EOF TO TOFILE	An error occurred while writing an end-of-file mark in the "to" file.	Retry the operation.
132	VERIFY OPTION: ERROR WHILE SPACING IN THE FROMFILE	An error occurred while spacing through the "from" file during a verify operation.	
133	VERIFY OPTION: ERROR WHILE SPACING IN THE TOFILE	An error occurred while spacing through the "to" file during a verify operation.	
134	WARNING: FOUND EOF IN TOFILE	FCOPY has performed the specified operation but has filled the "to" file before completing the operation.	The "to" file was not large enough. Use the MPE :LISTF filename,2 command to determine the "to" file's size and then increase its size (using the MPE :PURGE and :BUILD commands) and retry the operation.
135	WRITE ERROR TO TOFILE	An error occurred while writing to the "to" file	Retry the operation.

Table 5-3. FCOPY Warning and Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
136	READ ERROR FROM TOFILE	An error occurred while reading from the "to" file during a compare or verify operation.	<i>Compare operation:</i> Retry the operation. If the error persists, you must try to recreate the "to" file. <i>Verify operation:</i> Retry the operation.
137	WARNING: AN UNLABELLED TAPE OPERATION ENDS ON AN ERROR	An operation involving a magnetic tape "from" file was terminated by reading beyond the end of valid data rather than by sensing an end-of-file mark.	This is not an error. You can avoid this message by reading the "from" tape one file at a time and using the keyword SUBSET.
138	TITLE OPTION: TITLE TOO LONG	The title specified for the list function is longer than the 70 characters allowed or it extended over more than one line (record).	<i>In a job:</i> Correct the command and re-submit the job. <i>In a session:</i> Re-enter the command using the correct format.
139	DUMP OPTION: TOFILE RECSIZE NOT WITHIN LEGAL LIMIT	A file display was directed to an intermediate storage device with an incorrect record size. That record size must be ≥ 60 bytes (30 words).	Change the record size of the intermediate storage file (using the MPE :PURGE and :BUILD commands) so that it is within the allowed range and then retry the operation.
140	COMPARE OR VERIFY OPTION: OPERATION FAILS; DIFFERENT FIXED RECSIZES	The compare or verify operation was not attempted because the record sizes of the "to" and "from" files are not identical.	<i>Compare operation:</i> None. The compare operation revealed that the fixed record sizes of the two files are not identical. <i>Verify operation:</i> Change the record size of the "to" file (using the MPE :PURGE and :BUILD commands) so that it is the same as that of the "from" file and then retry the operation.
141	COMPARE BEGINS	The comparison phase of a verify operation has begun.	None.
143	WARNING: FROMFILE IS EMPTY	The "from" file contained no data. Nothing was copied or compared.	None. You may have accidentally specified the wrong file as the "from" file.
144	NEW OPTION: FILE ALREADY EXISTS	The "to" file named for the new file function already exists in the specified (or implied) group and account.	Change the name of the "to" file and try the operation again.

Table 5-3. FCOPY Warning and Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
145	BACKSPACE ERROR IN FROMFILE	An error occurred while spacing backward to the beginning of the "from" file or a subset within it.	Retry the operation.
200	WARNING: FROMFILE RECSIZE IS <i>number type</i> , TOFILE RECSIZE IS <i>number type</i>	The record sizes of the "from" and "to" files are not identical	<i>In a job:</i> FCOPY performs the specified operation despite the conflict. <i>In a session:</i> You are given the choice whether or not to continue the operation. Note that if the "from" record size is larger than the "to" record size, the "from" records would be truncated. If the "to" record size is larger than the "from" record size, the content of the excess byte positions in the "to" records is unpredictable.
201	WARNING:FROMFILE IS ASCII, TOFILE IS BINARY or WARNING: FROMFILE IS BINARY, TOFILE IS ASCII	The data formats of the "from" and "to" files are not identical.	<i>In a job:</i> FCOPY performs the operation despite the conflict. <i>In a session:</i> You are given the choice whether or not to continue the operation.
301	READ ERROR IN FROMFILE AT RECORD <i>recnum</i>	An error occurred while reading from the "from" file at the record number displayed (<i>recnum</i>).	Retry the operation. If the error persists, use the subset function to copy all of the file except the erroneous record.
302	VERIFY OPTION: RAN OUT OF VERIFY ERRORS AT FROMFILE RECORD <i>recnum</i>	The verify function was terminated because the specified maximum number of errors has been exceeded at the record number displayed (<i>recnum</i>).	Retry the operation specifying a larger <i>number-of-errors</i> parameter.
304	COMPARE OPTION: RAN OUT OF COMPARE ERRORS AT FROMFILE RECORD <i>recnum</i>	The compare function was terminated because the specified maximum number of errors has been exceeded at the record number displayed (<i>recnum</i>).	Retry the operation specifying a larger <i>number-of-errors</i> parameter.

Table 5-3. FCOPY Warning and Error Messages (Continued)

CODE	MESSAGE	MEANING	ACTION
901	KSAM FROMFILE BOUNDARY (EOF OR BOF)	The beginning or end of the <i>from</i> file was reached during the copy operation.	Try again. Create a KSAM file before running FCOPY and copy to that file.
902	KSAM FROMFILE POSITIONING ERROR	Could not position to desired place.	
903	NEW NOT ALLOWED WITH KSAM FROMFILE	The NEW parameter must not be specified when the <i>from</i> file is a KSAM file.	

SORT/MERGE/3000 ERROR MESSAGES

Errors may occur either during Sort program execution or during Merge program execution. In each case, the errors may result from calls to the system segmented library or as a direct result of commands entered to control stand-alone program execution.

SORT ERRORS

Sort program errors are of two types: SORTLIB errors resulting from errors in the SORTLIB segment of the system segmented library, and errors resulting from stand-alone Sort program execution. Table 5-4 lists the SORTLIB error messages; table 5-5 the Sort program error messages.

MERGE ERRORS

Like sort errors, merge errors are of two types: MERGELIB errors resulting from errors in the MERGELIB segment of the system segmented library, and errors resulting from stand-alone Merge program execution. Table 5-6 lists the MERGELIB error messages; table 5-7, the Merge program error messages.

ERROR TYPE

An error type is provided for most messages. In general, the error types have the following meaning:

- LIB** An error occurred as a result of a call to a system segmented library: SORTLIB or MERGELIB. If the call was to SORTLIB, you can restore the stack by a call to SORTEND and, after correcting the error, continue with the rest of your program. Usually, the sort will not be successful in this case. When the call is to MERGELIB, the procedure returns directly to your program and no special recovery is required in order to continue execution.
- I/O** An I/O error occurred either in a call to SORTLIB or MERGELIB or in execution of a stand-alone Sort or Merge program. The program terminates and a file information display is issued to the standard output device (terminal in a session, line printer in a job). Appendix A contains a discussion of this display.
- HARD** A hard error causes the program to terminate. Such errors occur during execution of the stand-alone Sort or Merge programs.
- none** When the type column is empty for errors encountered during execution of the stand-alone Sort/Merge programs, recovery depends on whether the program is executed in batch or interactive mode. In batch mode (job), the program terminates; you may correct the command and run the program again. In interactive mode (session), the command prompt is issued again so that you can enter the command correctly and continue execution.

Table 5-4. SORT/MERGE/3000 SORTLIB Error Messages

CODE	TYPE	MESSAGE	MEANING	ACTION
1	LIB	IF KEYCOMPARE IS SPECIFIED KEYS AND NUMKEYS MUST NOT BE	In call to SORTINITIAL, KEYS and NUMKEYS parameters must not be specified if KEYCOMPARE parameter is specified.	Call SORTEND to restore stack to its original condition in order to continue. Remove KEYS and NUMKEYS, or KEYCOMPARE.
2	LIB	IF KEYCOMPARE IS NOT SPECIFIED, KEYS AND NUMKEYS MUST BE	In call to SORTINITIAL, KEYS and NUMKEYS parameters required if KEYCOMPARE not specified.	Call SORTEND to restore stack to its original condition in order to continue. Specify KEYS and NUMKEYS, or KEYCOMPARE.

Table 5-4. SORT/MERGE/3000 SORTLIB Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
3	LIB	NO RECLN PARAMETER SPECIFIED OR ≤ 0	In call to SORTINITIAL, record length in RECLN parameter is negative or omitted and INPUTFILE not specified.	Call SORTEND to restore stack if you want to continue; specify RECLN as positive value; may be omitted only if INPUTFILE specified.
4	LIB	KEYCOMPARE MAY NOT BE SPECIFIED IF OUTPUTOPTION 1	In call to SORTINITIAL, KEYCOMPARE parameter cannot be used if value of OUTPUTOPTION is 2 or 3.	Call SORTEND to restore stack in order to continue. Either remove KEYCOMPARE or lower the value of OUTPUTOPTION.
5	I/O	FREAD ERROR ON SCRATCH-FILE	I/O error in Sort library intrinsic execution; file information display is issued, (see appendix A).	Check meaning of file information display to determine cause of error. Call SORTEND to restore stack in order to continue.
6	LIB	ILLEGAL OUTPUTOPTION	In call to SORTINITIAL, OUTPUTOPTION may only have values 0, 1, 2, and 3.	Check Sort manual for meaning of OUTPUTOPTION values; call SORTEND to restore stack and continue.
7	I/O	SCRATCH FILE CANNOT BE OPENED	I/O error in Sort library intrinsic execution; file information display is issued (appendix A).	Check meaning of file information display to determine cause of error. Call SORTEND to restore stack in order to continue.
8	LIB I/O	FAILURE ON FGETINFO (INPUTFILE)	I/O error in call to Sort library intrinsic; file information display is issued (appendix A).	Check meaning of file information display to determine cause of error. Call SORTEND to restore stack and continue.
9	LIB	ILLEGAL NUMKEYS	In call to SORTINITIAL, value of NUMKEYS is not legal; must be positive non-zero value.	Check manual for legal NUMKEYS value; call SORTEND to restore stack and continue after correcting NUMKEYS.
10		KEYFIELD IS NOT WITHIN SPECIFIED RECORD LENGTH	Starting position is less than 1 or starting position + length is greater than record length.	Correct and then call SORTEND to restore stack and continue.
11	LIB	ILLEGAL ASCENDING/DESCENDING CODE	A code other than 0 or 1 is in bits 0-7 of word 2 of the KEYS array.	Correct and then call SORTEND to restore stack and continue.
12	LIB	ILLEGAL KEY CODE	An illegal code is in bits 8-15 of word 2 of the KEYS array.	Correct and call SORTEND to restore stack and continue.
13		INSUFFICIENT STACK SPACE	The available stack space is not large enough to perform the sort operation.	
14		INPUT RECORD DOES NOT INCLUDE KEY FIELDS	The input record is too short to contain all the key fields.	
15	LIB	INPUT RECORD IS TOO LONG	The input record is longer than the specified record length.	Correct and call SORTEND to restore stack and continue.
16		TOO MANY INPUT RECORDS	An attempt has been made to sort more records than specified in the NUMRECS parameter to SORTINITIAL.	

Table 5-4. SORT/MERGE/3000 SORTLIB Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
17	I/O	FWRITE ERROR ON SCRATCH-FILE	I/O error in call to Sort library intrinsic; file information display is issued (appendix A).	Check meaning of file information display to determine cause of error. Correct and call SORTEND to restore stack and continue.
18	I/O	FREAD ERROR ON INPUTFILE	I/O error in call to Sort library intrinsic; file information display is issued (appendix A).	Check meaning of file information display to determine cause of error. Correct and call SORTEND to restore stack and continue.
19	I/O	FWRITE ERROR ON OUTPUTFILE	I/O error in call to Sort library intrinsic; file information display is issued (appendix A).	Check meaning of file information display to determine cause of error. Correct and call SORTEND to restore stack and continue.
20	I/O	FCLOSE ERROR ON SCRATCH-FILE	I/O error in call to Sort library intrinsic; file information display is issued (appendix A).	Check meaning of file information display to determine cause of error. Correct and call SORTEND to restore stack and continue.

Table 5-5. SORT/MERGE/3000 Sort Program Error Messages

CODE	TYPE	MESSAGE	MEANING	ACTION
1	I/O HARD	FAILURE ON FOPEN OF LIST FILE	Unable to open LIST file.	Program terminates; check file information display for cause of error and try running again after correcting error.
2	HARD	LIST FILE IS READ-ONLY	File specified as list file has been opened for read only.	Program terminates; check list file name, if correct, close and open with write access; try again.
3	I/O HARD	FAILURE ON FOPEN OF TEXT FILE	Unable to open the input file.	Program terminates; check file information display for cause of error and try running again after correcting error.
4	HARD	TEXT FILE IS WRITE-ONLY	File specified as text file has been opened for write only.	Program terminates; check text file name, if correct, close and open with read access; try again.
5		ILLEGAL COMMAND	Specified command not recognized as Sort program command.	In batch job, program terminates; correct and rerun. In session, enter command correctly, continue.
6		NO KEYS WERE SPECIFIED	An END command was encountered before a legal KEY field was specified.	
7		FILE NAME CANNOT EXCEED 35 CHARACTERS	The file name in an INPUT or OUTPUT command is longer than allowed by MPE.	
8		MISSING COMMA	A comma is missing between parameters of an INPUT, OUTPUT, or KEY command.	

Table 5-5. SORT/MERGE/3000 Sort Program Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
9	I/O HARD	ILLEGAL NUMBER OF RECORDS	An illegal character has been detected in the number of records parameter of the INPUT command.	In batch mode, program terminates; in session, re-enter command and continue.
10		NUMBER OF RECORDS TOO LARGE OR TOO SMALL	A number less than 1 or greater than the largest positive double integer has been specified in the number of records parameter of the INPUT command.	
11		ILLEGAL RECORD SIZE	An illegal character has been detected in the record size parameter of the INPUT command.	
12		RECORD SIZE TOO LARGE OR TOO SMALL	A number less than 1 or greater than the 32,767 has been specified in the record size parameter of the INPUT command.	
13		TOO MANY PARAMETERS	More parameters than allowed have been specified in an INPUT, OUTPUT, KEY, RESET, VERIFY, or END command.	
14		FAILURE ON FOPEN OF INPUT FILE	I/O error; file information display is issued; (appendix A). END command.	Program terminates; check file information display for cause of error.
15		MISSING NUM OR KEY	In OUTPUT command, parameter after file specification is not NUM or KEY.	In batch mode, program terminates; in session, re-enter command and continue.
16		ILLEGAL POSITION	In KEY command, illegal character found in position parameter.	In batch mode, program terminates; in session, re-enter command and continue.
17		POSITION OUT OF RANGE	A number less than 1 or greater than 32,767 has been specified as the position parameter in a KEY command.	In batch mode, program terminates; in session, re-enter command and continue.
18		MISSING PARAMETER	Missing parameter in INPUT, OUTPUT, or KEY command.	In batch mode, program terminates; in session, re-enter command and continue.
19		LENGTH OUT OF RANGE	A number less than 1 or greater than 32,767 has been specified as the length parameter in a KEY command.	In batch mode, program terminates; in session, re-enter command and continue.
20		LENGTH PARAMETER NOT AN INTEGER	An illegal character has been detected in the length parameter in a KEY command.	In batch mode, program terminates; in session, re-enter command and continue.
21		LENGTH NOT SPECIFIED FOR TYPE BYTE, PACKED, DISPLAY	The length parameter has been omitted for a key field of type BYTE, PACKED, or DISPLAY in a KEY command.	In batch mode, program terminates; in session, re-enter command and continue.

Table 5-5. SORT/MERGE/3000 Sort Program Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
22		MISSING DESC.	An illegal keyword parameter has been encountered in a KEY command. Possibly a misspelling of a type or DESC.	In batch mode, program terminates; in session, re-enter command and continue.
23	HARD	INPUT FILE IS WRITE-ONLY	I/O error detected at END command.	Program terminates.
24	I/O	FAILURE ON FOPEN OF OUTPUT FILE	I/O error detected at END command; file information display is issued (see appendix A).	Program terminates; check file information display for cause of error.
25	HARD	OUTPUT FILE IS READ- ONLY	I/O error detected at END command.	
26	I/O	FAILURE ON FCLOSE OF OUTPUT FILE	I/O error detected; file information display is issued (see appendix A).	Program terminates; check file information display for cause of error.
27		SUM OF KEYFIELD SIZES TOO LARGE	Length of the output record is too large.	In batch mode, program terminates; in session, enter command correctly and continue.
28	I/O	FAILURE ON PURGE OF OLD OUTPUT FILE	I/O error detected; file information display is issued (see appendix A).	Program terminates; check file information display for cause of error.
29	I/O	FAILURE ON FOPEN OF OLD OUTPUT FILE	I/O error detected; file information display is issued (see appendix A).	Program terminates; check file information display for cause of error.
30	I/O	FAILURE ON FRENAME OF OUTPUT FILE	I/O error detected; file information display is issued (see appendix A).	Program terminates; check file information display for cause of error.
31	I/O HARD	FAILURE ON FWRITE OF PROMPT FILE	I/O error detected; file information display is issued (see appendix A).	Program terminates; check file information display for cause of error.
32	I/O	FAILURE ON FREAD OF TEXT FILE	I/O error detected; file information display is issued (see appendix A).	Program terminates; check file information display for cause of error.

Table 5-6. SORT/MERGE/3000 MERGELIB Error Messages

CODE	TYPE	MESSAGE	MEANING	ACTION
1	LIB	NO NUMINPUTFILES PARAMETER SPECIFIED	NUMINPUTFILES parameter was omitted from call to MERGE procedure.	
2	LIB	ILLEGAL NUMINPUTFILES	NUMINPUTFILES parameter in call to MERGE procedure is less than 1.	
3	LIB	NO INPUTFILES PARAMETER SPECIFIED	INPUTFILES parameter omitted from call to MERGE procedure.	

Table 5-6. SORT/MERGE/3000 MERGELIB Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
4	LIB	NEITHER OUTPUTFILE NOR POSTPROCESSOR PARAMETER SPECIFIED	Neither OUTPUTFILE nor POSTPROCESSOR parameter specified in call to MERGE procedure.	
5	LIB	IF KEYCOMPARE IS SPECIFIED, KEYS AND NUMKEYS MUST NOT BE	KEYS and NUMKEYS parameters included in a call to the MERGE procedure with the KEYCOMPARE parameter specified.	
6	LIB	IF KEYCOMPARE IS NOT SPECIFIED, KEYS AND NUMKEYS MUST BE	Call to the MERGE procedure did not specify a KEYCOMPARE parameter or a KEYS/NUMKEYS combination.	
7	LIB	ILLEGAL NUMKEYS	Value of NUMKEYS parameter passed to MERGE procedure was less than 1 or greater than 10000.	
8	LIB	KEYFIELD IS NOT WITHIN RECORD LENGTH OF EACH FILE	Either starting position of key is less than 1 (Word 0 of the KEYS array), length is less than 1 (Word 1 of the KEYS array), or starting position + length of at least one key field is greater than the record length (RECLen parameter).	
9	LIB	ILLEGAL ASCENDING/DSCENDING CODE	A code other than 0 or 1 is contained in bits 0-7 of word 2 of the KEYS array.	
10	LIB	ILLEGAL KEY CODE	An illegal code is contained in bits 8-15 of word 2 of the KEYS array. Legal codes are 0-5.	
11	LIB I/O	FAILURE ON FGETINFO (INPUTFILE)	I/O error in MERGELIB call; file information display is issued (see appendix A).	
12	I/O	FREAD ERROR ON INPUT FILE	I/O error in MERGELIB call; file information display is issued (see appendix A).	Check file information display to determine cause of error.
13	I/O	FWRITE ERROR ON OUTPUT FILE		
14	I/O	INPUT RECORD DOES NOT INCLUDE ALL KEY FIELDS	I/O error in MERGELIB call; file information display is issued (see appendix A).	
15	LIB	IF KEYCOMPARE IS SPECIFIED, KEYONLY MAY NOT BE	Both the KEYONLY and the KEYCOMPARE parameters have been specified in the same call to MERGE.	
16		INSUFFICIENT STACK SPACE	The available stack space is not large enough to perform the merge operation.	

Use a MAXDATA = segsize parameter at PREP or RUN time, or increase segsize.

Table 5-7. SORT/MERGE/3000 Merge Program Error Messages

CODE	TYPE	MESSAGE	MEANING	ACTION
1	I/O HARD	FAILURE ON FOPEN OF LIST FILE		
2	HARD	LIST FILE IS READ-ONLY		
3	I/O HARD	FAILURE ON FOPEN OF TEXT FILE		
4	HARD	TEXT FILE IS WRITE-ONLY		
5		ILLEGAL COMMAND	Specified command not recognized as MERGE program command.	
6		NO KEYS WERE SPECIFIED	END command encountered before legal KEY field was specified.	
7		FILENAME CANNOT EXCEED 35 CHARACTERS	File name in INPUT or OUT- PUT command is longer than MPE allows.	
8		MISSING COMMA	Comma missing between parameters of INPUT, OUT- PUT, or KEY command.	
9		MISSING PARAMETER	Parameter missing from INPUT, OUTPUT, or KEY command.	
10		ILLEGAL NUMBER OF RECORDS	Illegal character detected in the number of records param- eter of OUTPUT command.	
11		NUMBER OF RECORDS TOO LARGE OR TOO SMALL	Number less than 1 or greater than the largest positive double integer was specified in the number of records parameter of OUTPUT command.	
12		TOO MANY PARAMETERS	More parameters than allowed were specified in INPUT, OUTPUT, KEY, RESET, VERIFY, or END command.	
13	HARD	INSUFFICIENT SPACE	Insufficient space between DB and DL.	
14	I/O HARD	FAILURE ON FOPEN OF INPUT FILE	I/O error; file information display is issued.	Refer to appendix A for discussion of file information display.
15		ILLEGAL POSITION	Illegal character detected in position parameter of the KEY command.	
16		POSITION OUT OF RANGE	Number less than 1 or greater than 32,767 was specified as the position parameter in a KEY command.	
17		LENGTH OUT OF RANGE	Number less than 1 or greater than 32,767 was specified as length parameter in a KEY command.	

Table 5-7. SORT/MERGE/3000 Merge Program Error Messages (Continued)

CODE	TYPE	MESSAGE	MEANING	ACTION
18		LENGTH PARAMETER NOT AN INTEGER	Illegal character detected in the length parameter in a KEY command.	
19		LENGTH NOT SPECIFIED FOR TYPE BYTE, PACKED, DISPLAY	Length parameter omitted for a key field of type BYTE, PACKED, or DISPLAY in a KEY command.	
20		MISSING DESC.	Illegal keyword parameter encountered in a KEY command. Possibly a misspelling of a type or DESC.	
21	I/O HARD	INPUT FILE IS WRITE-ONLY	In END command.	
22	I/O HARD	FAILURE ON FOPEN OF OUTPUT FILE	In END command.	
23	I/O HARD	OUTPUT FILE IS READ-ONLY	In END command.	
24		NO INPUTFILES WERE SPECIFIED	END command encountered before any INPUT files were specified.	
25		FAILURE ON FCLOSE OF OUTPUT FILE		
26		SUM OF KEYFIELD SIZES TOO LARGE FOR OUTPUT FILE	Length of the OUTPUT record is too large.	
27	I/O	FAILURE ON PURGE OF OLD OUTPUT FILE		
28	I/O	FAILURE ON FOPEN OF OLD OUTPUT FILE		
29	I/O	FAILURE ON FRENAME OF OUTPUT FILE		
30	I/O HARD	FAILURE ON FWRITE OF PROMPT FILE		
31	I/O HARD	FAILURE ON FREAD OF TEXT FILE		

DEBUG/STACKDUMP ERROR MESSAGES

Only the DEBUG program of the DEBUG/STACKDUMP system issues error messages.

When an error is detected by DEBUG, it issues a message in the form:

message n

where:

message indicates the type of error.

n indicates the character position in the command where the error was detected.

For example, suppose you enter the following command:

?DQ+ 1:,8,A
SYNTAX 6 message issued by DEBUG

This indicates that there is a syntax error following character position 6.

In this case, it is the decimal value 8 that is in error. To correct, re-enter the command:

?DQ+ 1:,#8,A

The five possible messages issued by DEBUG are defined in Table 5-8.

Table 5-8. DEBUG Error Messages

MESSAGE	MEANING	CORRECTIVE ACTION
BOUNDS	A specified location is outside the permitted bounds. For example, in non-privileged mode, you referenced a location above S or below DL in the data stack; or, in privileged mode, you referenced code outside the specified segment, or an absolute address outside memory.	Check your command to make sure it is entered correctly. If it is, lower or raise the referenced location. Note that using an indirect address where you want direct can produce a bounds violation.
CHECK	New breakpoint conflicts with established breakpoint. This usually occurs when you specify as new a breakpoint that already exists.	This is a warning only. You may continue. Any new breakpoints will be established, existing breakpoints are not affected. If you wish, check all existing breakpoints with the B@ command.
FULL	The breakpoint table established at system configuration is full.	Probably too many users are currently using DEBUG. Wait and try again. If this message happens consistently, request your system manager to re-configure with a larger breakpoint table.
NO-NO	Invalid information was provided in a command whose syntax is correct. For instance, you specified a logical segment number that does not exist.	Check the information provided in your command. For instance, if you entered B 5.166+ 70, make sure that you actually have six segments in your code. Correct and continue.
SYNTAX	The command syntax is in error.	Check the syntax and continue.

TRACE/3000 ERROR MESSAGES

TRACE/3000 issues error messages under three circumstances: when records are improperly formatted in a BATCH file, when PRINT and HALT paragraphs overflow the PRINT/HALT table, and when a sentence in a PRINT or HALT paragraph uses improper syntax. The error messages are described in table 5-9.

Table 5-9. TRACE/3000 Error Messages

MESSAGE	MEANING	ACTION
BAD TRACE FILE	In a BATCH file: the \$TRACESTART statement is not the first record or does not start in column 1; each line of a PRINT or HALT paragraph is not a separate record or does not start in column 1; or the \$TRACEEND statement is not the last record, does not start in column 1, or is not preceded by a blank record.	Correct the format of the records in the BATCH file.
OVERFLOW	More PRINT or HALT paragraphs than fit in the PRINT/HALT table.	If ABORT parameter was specified in \$TRACESTART, the program terminates; if ABORT was not specified, execution continues but the paragraph is ignored.
BAD SYNTAX <i>n</i>	When a sentence uses improper syntax, this message is displayed; <i>n</i> indicates the first character position in the line where the error occurred.	In a BATCH file, the rest of the paragraph is ignored and, if ABORT was specified in \$TRACESTART, the program terminates, if ABORT was <i>not</i> specified, the program continues by reading the next paragraph. In an INTERACTIVE file, the sentence is ignored and you can enter the sentence correctly after the BAD SYNTAX message.

SADUTIL ERROR MESSAGES

Error messages are issued by SADUTIL when an I/O operation fails or when an error occurs during SADUTIL operation. The I/O error messages are listed in table 5-10, the SADUTIL operation error messages are listed in table 5-11.

SADUTIL I/O ERROR MESSAGES

When an error occurs on magnetic tape, one of the messages listed in table 5-10 is issued. The SAVE operation is terminated and SADUTIL prompts for the next function.

Disc errors resulting from sectors outside the directory, absence of required account entries, bad tracks, or invalid label comparisons can be investigated with the EDIT function.

SADUTIL OPERATION ERROR MESSAGES

When an error occurs during operation of SADUTIL, one of the messages listed in table 5-11 appears at the system console. SADUTIL continues after issuing the message and you are prompted for further input.

Table 5-10. SADUTIL I/O Error Messages

MESSAGE	MEANING	ACTION
UNIT WENT OFF-LINE NOT READY INTERRUPT TRANSFER ERROR CMD REJECT TAPE RUN AWAY TIMING ERROR TAPE PARITY ERROR	Magnetic tape unit is off-line. Magnetic tape parity error.	
Following each of the messages, SADUTIL prints: *TAPE { WRITE EOF BACKSPACE } ERROR*		

Table 5-11. SADUTIL Operation Error Messages

MESSAGE	MEANING	ACTION
ACCOUNT NOT IN DIRECTORY	In a PFIL function request, a referenced file belongs to an account not present in the System File Directory.	Re-enter the file reference with the correct account name.
DIRECTORY ERROR	During a COND operation, an error was found in the System File Directory. No condensing is performed.	Use the EDIT function of SADUTIL to analyze the problem or see your system manager.

Table 5-11. SADUTIL Operation Error Messages (Continued)

MESSAGE	MEANING	ACTION
DISC { READ } { WRITE } ERR ON { SEEK } LDEV# <i>ldn</i> STATUS=%<i>statusval</i> ADDR= %<i>sectoraddr</i> *FILE NOT IN DIRECTORY* *FUNCTION NOT COM- PLETED* *GROUP NOT IN DIRECTORY* ILLEGAL DEVICE SPECIFI- CATION *INVALID* *INVALID COMMAND* INVALID DEVICE SPECIFI- CATION INVALID DISC ADDRESS LDEV <i>ldn</i> NOT DEFINED LDEV <i>ldn</i> NOT READY MISSING DEVICE SPECIFI- CATION FOR <i>volumename</i> VOLUME SYSTEM DISC NOT CONFIGURED VOLUME <i>volumename</i> FOR LDEV <i>ldn</i> NOT IN VOLUME TABLE	SADUTIL was unable to complete the particular I/O operation to or from disc. <i>ldn</i> is the logical device number of the volume, <i>statusval</i> is the hardware status word of the device after operation, <i>sectoraddr</i> is the address of the disc sector where the error occurred. In a PFIL operation, a referenced file is not present in the System File Directory, although the account and group names were valid and present. The function in process encounters an irrecoverable error, such as disc I/O error, and terminates. The requested operation is not completed. (This message typically follows a message explaining the error.) In a PFIL request, a referenced file belongs to a group not present in the System File Directory, although the account name was valid and present. An input/output device was specified for a function (such as EDIT, PFIL, SAVE, or STOP) that does not use a device specification. The response to a prompt was not recognizable. An invalid (unrecognizable) EDIT command was encountered. The function keyword is correct but the input/output device specification is invalid, for instance a special character or an unrecognizable number. In the MODIFY command of the EDIT function, an invalid disc address is encountered, or a disc read or write operation attempted to access a sector address not on the volume. A specified logical device (<i>ldn</i>) has not been configured through the SADUTIL cold-load dialogue or the CONF function. You requested a function that performs disc I/O but the disc drive is not ready, for example, a removable cartridge has been removed. The System Volume Table contains the name <i>volumename</i> but no such volume has been mounted and configured into the system. This message appears during initial configuration dialogue when the system disc (<i>ldn</i>=1) has not been configured. This message appears when a configured disc is not represented in the System Volume Table. The message appears only for functions that require all volumes to be mounted, such as COND, PFIL, and SAVE.	If the error occurs on a removable disc, remove the disc and replace it with a new scratch disc; rerun SADUTIL. Re-enter the file reference with the correct file name. Re-enter the file reference with the correct group name. Re-enter the function keyword correctly. At next prompt, re-enter response correctly. At next prompt, re-enter command correctly. At next prompt, re-enter device specification correctly. If invalid disc address, enter valid address in response to next prompt; if sector address not on volume, a system problem exists and you should notify your system manager. Configure the device or specify another device. Ready the disc drive or reference another disc. Configure the device. Proceed with the configuration.

LISTLOG2 ERROR MESSAGES

If an error occurs in the LISTLOG2 utility program, an error message is printed on the standard list device. Fatal errors call the QUIT intrinsic (intrinsic 99) after the error message is printed, terminating the program. The error messages are listed in table 5-12; the error number (xx) is the FCHECK error code described in table 2-7 of this manual. The log file number (xxxx) identifies the log file where the error occurred.

Table 5-12. LISTLOG2 Error Messages

MESSAGE	MEANING	ACTION
BINARY INTRINSIC ERROR	Binary intrinsic did not return a CCE condition. Program may terminate.	Enter alphanumeric characters in response to prompt (after re-running program if it terminated).
FATAL FGETINFO ERROR ERROR NUMBER xx	FGETINFO intrinsic did not return a CCE condition. Program terminates.	Check FCHECK error number (xx) in table 2-7. Correct and run again.
FATAL FREAD ERROR ON LOGFILE xxxx ERROR	An FREAD intrinsic failed to read log file number xxxx. Program terminates.	
FATAL FPOINT ERROR ERROR NUMBER xx	FPOINT error caused program to terminate.	Check FCHECK error number (xx) in table 2-7. Correct and run again.
FCLOSE ERROR ON LINE PRINTER ERROR NUMBER xx	FCLOSE intrinsic did not return a CCE condition. Program continues.	Warning only.
FCLOSE FAILED TO LOG- FILE xxxx ERROR NUMBER xx	FCLOSE intrinsic did not return a CCE condition. Program moves on to next selected log file.	Check FCHECK error number (xx) in table 2-7.
FIRST RECORD NOT HEADER RECORD FOR LOGFILE xxxx	First record in log file xxxx was not a header record. Program prints contents of first record and continues.	Warning only.
FOPEN ERROR TO LOGFILE xxxx ERROR NUMBER xx	FOPEN intrinsic did not return a CCE condition. Program closes log file xxxx and moves on to open next selected log file.	Warning only. Check error number xx and correct in order to run program again and open log file xxxx.
FREAD FAILED FROM LOG- FILE xxxx ERROR NUMBER xx	FREAD intrinsic did not return a CCE condition. Program closes file number xxxx and moves on to next selected log file.	Check FCHECK error number (xx) in table 2-7.
FWRITE FAILED TO LINE PRINTER ERROR NUMBER xx	FWRITE intrinsic did not return a CCE condition. Program closes this line printer file and attempts to open another.	Check FCHECK error number (xx) in table 2-7.
TOO MANY CHARACTERS - TRY AGAIN	Too many characters entered. Program asks the question again.	Respond with fewer characters.
FOPEN TO LINEPRINTER FAILED FATAL ERROR ERROR NUMBER xx	FOPEN intrinsic did not return a CCE condition. Program tried to open lineprinter file a second time and since it failed, the program terminates.	Check FCHECK error number (xx) in table 2-7.
FPOINT ERROR ON LOG- FILE xxxx ERROR NUMBER xx	FPOINT intrinsic did not return a CCE condition for file number xxxx.	Check FCHECK error number (xx) in table 2-7.
FREAD ERROR ON LOGFILE xxxx ERROR NUMBER xx	An FREAD intrinsic failed to read log file xxxx.	Check FCHECK error number (xx) in table 2-7.

DISKED2 ERROR MESSAGES

If an error occurs during the DISKED2 dialogue, the program prints an error message followed by the indication *ERROR* on the next line. Table 5-13 lists the DISKED2 error messages and their meaning.

Table 5-13. DISKED2 Error Messages

MESSAGE	MEANING	ACTION
FWRITE ERR ON LIST <i>fchecknum</i>	Output from the program to the listing device was not completed. The parameter <i>fchecknum</i> lists the error code returned by the FCHECK intrinsic.	Check table 2-7 for meaning of <i>fchecknum</i> .
DISC <i>attiono</i>	The ATTACHIO routine failed on the disc; <i>attiono</i> is an internal error number returned by this routine.	
INVALID DISC ADDRESS	Address specified by BASE command is invalid, or relative sector address plus absolute sector address in DUMP is less than zero, or sector address plus absolute sector address in MODIFY is less than zero.	
DEVICE NOT DISC UNABLE TO OPEN LIST DEVICE	A command referenced a device that is not a disc. DISKED2 could not open the list device.	

PATCH ERROR CODES

During the PATCH dialogue, error codes are issued when an error occurs. These codes and their meaning are listed in table 5-14.

Table 5-14. PATCH Error Codes

NUMBER	MEANING	ACTION
1	PATCH could not open the program file.	
2	PATCH encountered an FREAD intrinsic error on the program file.	
3	PATCH could not close the program file.	
4	PATCH encountered an FREADDIR intrinsic failure in an operation other than MODIFY.	
5	PATCH encountered an FREADDIR intrinsic failure in a Modify operation.	
6	PATCH encountered an FWRITEDIR intrinsic failure in a Modify operation.	

SLPATCH ERROR MESSAGES

During SLPATCH execution, error messages are returned for any errors encountered. Errors may be of two types: fatal and non-fatal. All error messages are listed in table 5-15.

FATAL ERRORS

When a fatal error occurs, one of three messages is issued and then SLPATCH terminates. MPE prints the following message:

```
ABORT:SLPATCH.PUB.SYS.%0%660
```

```
PROGRAM ERROR #18:PROCESS QUIT. PARAM=1
```

NON-FATAL ERRORS

When a non-fatal error occurs, a message is issued and the prompt is repeated so that you can enter the command correctly and continue. The program does not terminate.

Table 5-15. SLPATCH Error Messages

MESSAGE	TYPE	MEANING	ACTION
xx IO ERROR***	Fatal	Error indicated by FCHECK error code (xx) occurred during an I/O operation.	Check table 2-7 for the FCHECK error code. Correct error, if possible, and re-run program.
END OF FILE	Fatal		
FILE ERROR=xx	Fatal	Error indicated by FCHECK error code (xx) occurred during a file operation.	Check table 2-7 for the FCHECK error code. Correct error if possible, and re-run program.
ILLEGAL COMMAND	Non-fatal		
ILLEGAL SEGMENT NAME	Non-fatal		
ILLEGAL RANGE	Non-fatal		
INVALID SL FILE	Non-fatal		
SEGMENT NOT SPECIFIED	Non-fatal		

COMPILER LIBRARY ERROR MESSAGES

Many routines in the Compiler Library, especially some mathematical routines and the Formatter, can detect errors in the data processed. Those routines, when error detection occurs, call one of two library error routines: SOFTERROR' or FMTEERROR'. The normal function of either error routine is to report the error conditions and abort the user's program. All error messages are listed in table 5-16. Further details of the Formatter error messages (from FMTEERROR') are given in Section I of the Compiler Library Reference Manual under "Formatter Error Reports."

All SOFTERROR' messages are followed by one or two additional reports: an "illegal parameter value(s) report" (if needed) then a "stack trace-back report." The former occurs for most library procedures that find such an error.

The SOFTERROR' message format is (see table 5-16):

procedure name: message

The illegal parameter value(s) report format is:

X = first or only parameter value

Y = second parameter value (this line is omitted if not needed)

NOTE: If either or both values are complex, two values are reported for each; the first value is the real part, the second value is the imaginary part.

The stack trace-back report, which also occurs after any Formatter Error Report, uses the same format as the stack trace and analysis provided by the MPE stack dump facility. Refer to the Debug/Stack Dump Reference Manual, section IV for a discussion of the stack trace and analysis.

Table 5-16. HP 3000 Compiler Library Error Messages

NUMBER	MESSAGE	ROUTINE	MEANING	ACTION
1	ATAN2: ARGUMENTS ZERO	ATAN2 (or ATAN2')	Both arguments = 0	
2	ATAN2: UNDERFLOW	ATAN2 (or ATAN2')	Underflow when arguments divided	
3	DATAN2: ARGUMENTS ZERO	DATAN2	Both arguments = 0	
4	DATAN2: UNDERFLOW	DATAN2	Underflow when arguments divided	
5	EXP: OVERFLOW	EXP (or EXP')	Result overflow	
6	DEXP: OVERFLOW	DEXP (or DEXP')	Result overflow	
7	ALOG: ARGUMENT NOT POSITIVE	ALOG (or ALOG')	Argument ≤ 0	
8	DLOG: ARGUMENT NOT POSITIVE	DLOG (or DLOG')	Argument ≤ 0	
9	CABS: OVERFLOW	CABS (or CABS')	Result overflow	
10	SQRT: ARGUMENT NEGATIVE	SQRT (or SQRT')	Argument < 0	

Table 5-16. HP 3000 Compiler Library Error Messages (Continued)

NUMBER	MESSAGE	ROUTINE	MEANING	ACTION
11	DSQRT: ARGUMENT NEGATIVE	DSQRT (or DSQRT')	Argument < 0	
12	TAN: OVERFLOW	TAN (or TAN')	Argument near $\frac{(2k+1)\pi}{2}$ (see text)	
13	DTAN: OVERFLOW	DTAN (or DTAN')	Argument near $\frac{(2k+1)\pi}{2}$ (see text)	
54	ITOI': ILLEGAL ARGUMENTS	ITOI'	Base = 0 and power < 0	
55	RTOI': ILLEGAL ARGUMENTS	RTOI'	Base = 0 and power < 0	
56	RTOR': ILLEGAL ARGUMENTS	RTOR'	Base = 0 and power < 0 or base < 0	
57	RTOL': ILLEGAL ARGUMENTS	RTOL'	Base = 0 and power < 0	
58	LTOI': ILLEGAL ARGUMENTS	LTOI'	Base = 0 and power < 0	
59	LTOL': ILLEGAL ARGUMENTS	LTOL'	Base = 0 and power < 0 or base < 0	
60	CTOI': ILLEGAL ARGUMENTS	CTOI'	Base = 0 and power < 0	
61	NUM: ILLEGAL CHARACTER	INUM' RNUM' JNUM' DNUM'	Illegal character in string being converted.	
62	NUM: NUMBER OUT OF RANGE	INUM' RNUM' JNUM' DNUM'	Number out of representable range (see Introduction to Compiler Library Reference Manual)	
63	NUM: RANGE AND CHAR ERROR	INUM' RNUM' JNUM' DNUM'	(both of the above)	
64	INVALID EXIT ON RETURN	(any)	Illegal EXIT label.	
65	INVALID SUBSCRIPT VALUE	BNDCHKx' BCA'x BFA'x	Subscript out of range (not detected unless \$CONTROL BOUNDS requested).	
66	INVALID SUBSTRING DESIGNATOR	SUBSTR'	Designator defines a substring not contained in the source string.	
67	DTOI': ILLEGAL ARGUMENTS	DTOI'	Base = 0 and power < 0	
68	DTOD': ILLEGAL ARGUMENTS	DTOD'	Base = 0 and power < 0	
69	RTOD': ILLEGAL ARGUMENTS	RTOD'	Base = 0 and power < 0	
70	LTOD': ILLEGAL ARGUMENTS	LTOD'	Base = 0 and power < 0	
71	CTOD': ILLEGAL ARGUMENTS	CTOD'	Base = 0 and power < 0	

Table 5-16. HP 3000 Compiler Library Error Messages (Continued)



NUMBER	MESSAGE	ROUTINE	MEANING	ACTION
101	ILLEGAL FORMAT CHARACTER	Formatter	Illegal format character	
102	UNDEFINED OPTION ON UNIT #xx	UNITCONTROL or FTNAUX'	Parameter OPT is outside the range [-1,8].	
103	NESTING TOO DEEP	Formatter	Specification group(s) nested deeper than level 4.	
104	STRING MISMATCH	Formatter	List and character string specification do not match.	
105	BAD INPUT CHARACTER	Formatter	Illegal character in input field.	
106	NUMBER OUT OF RANGE	Formatter	Numeric input field unrep- resentable.	
107	FORMAT BEYOND RECORD	Formatter	Format specification exceeds record length.	
108	BUFFER OVERFLOW	Formatter	Core-to-core conversion exceeds user-defined buffer.	
109	DIRECT ACCESS OVERFLOW ON UNIT #xx	Formatter	Binary direct access ex- ceeds record length.	
110	FILE NOT IN TABLE FOR UNIT #xx	Formatter	File name not in FLUT.	
111	FILE SYSTEM ERROR ON UNIT #xx	Formatter	File access problem.	
112	END OF FILE DETECTED ON UNIT #xx	Formatter	File access problem.	
113	INVALID FILE NUMBER FOR UNIT #xx	FSET	Parameter NEWFILE is outside the range [1,254].	
150	PLOTS: INVALID BUFFER SIZE	PLOTS	Invalid plot buffer size.	
151	PLOT: PLOTS NOT CALLED	PLOT	PLOTS procedure has not been called.	
152	PLOT: INVALID PEN PARAM- ETER	PLOT	Unrecognized PEN value.	
153	FACTOR: PLOTS NOT CALLED	FACTOR	PLOTS procedure has not been called.	
155	WHERE: PLOTS NOT CALLED	WHERE	PLOTS procedure has not been called.	
156	SYMBOL: PLOTS NOT CALLED	SYMBOL	PLOTS procedure has not been called.	
157	SYMBOL: INVALID CHARAC- TER OR SYMBOL	SYMBOL	Unrecognized input symbol.	

KSAMUTIL ERROR MESSAGES

KSAMUTIL errors, encountered when using the KSAMUTIL utility program, are reported in messages of the following format:

code

where *code* is a number in the range 1000 to 1050 indicating the type of error that occurred. The error codes are defined in table 5-17.

If you want to see an explanation of the error code, enter any printing character except a colon (:). If you do not want to see the explanation, press carriage return.

Table 5-17. KSAMUTIL Error Codes and Messages

CODE	MESSAGE	MEANING	ACTION
1000	COMMAND FILE READ ERROR.		
1001	COMMAND FILE END OF FILE.		
1002	UNKNOWN COMMAND. TYPE HELP.	Command name not recognized.	Type the correct name if you know it; else type HELP.
1003	TOO MANY PARAMETERS FOR THIS COMMAND.	More parameters specified than are allowed.	Check the command syntax and reenter correctly.
1004	COMMAND FILE DATA TRANSMISSION ERROR.		
1005	COMMAND TOO LONG.		
1006	FILE NAME TOO LONG OR ABSENT.	File name in BUILD command incorrect.	Enter file name of 8 or fewer alphanumeric characters starting with a letter.
1007	'REC' PARAMETER LIST EXHAUSTED.	Too many parameters specified after REC= in BUILD command.	Check syntax and reenter with correct number of parameters.
1008	'REC' RECORD SIZE VALUE INVALID.	Record size in BUILD command is not valid.	Check syntax and reenter with correct value for record size.
1009	'REC' BLOCKING FACTOR VALUE INVALID.	Block factor in BUILD command is not valid.	Check syntax and reenter with correct value for blocking factor.
1010	'REC' RECORD FORMAT VALUE INVALID.	Record format in BUILD command is not F or V.	Enter V for variable length records, F for fixed length, or omit for fixed length.

Table 5-17. KSAMUTIL Error Codes and Messages (continued)

CODE	MESSAGE	MEANING	ACTION
1011	'REC' RECORD TYPE VALUE INVALID.	Record code in BUILD command is not ASCII or BINARY.	Enter ASCII for ASCII-code records; BINARY or omit for binary-coded records.
1012	'DEV' DEVICE VALUE ABSENT.	No device specification after DEV= in BUILD command.	Enter legal device name or omit if device class is DISC.
1013	'DEV' DEVICE VALUE INVALID.	Device specification in BUILD command is not valid.	Enter legal device class name or legal logical device number. Refer to <i>System Manager/System Supervisor Manual</i> .
1014	'DEV' DEVICE VALUE TOO LONG OR ABSENT.	DEV= missing device specification or one that is too long.	Enter device name that is 1 to 8 alphanumeric characters, begins with a letter, terminates with non-alphanumeric character; or omit DEV= for DISC; or enter logical device number.
1015	'KEY' SPECIFICATIONS EXCEED LIMIT.	Too many KEY= specifications in BUILD.	Reduce number of keys to a total of 16.
1016	'KEY' CONTAINS TOO MANY PARAMETERS.	More than 5 parameters follow KEY= in BUILD.	Parameters are: <i>keytype</i> , <i>keylocation</i> , <i>keysize</i> , and optionally, <i>keyblocking</i> , and DUP or DUPLICATE.
1017	'KEY' TYPE VALUE INVALID.	Invalid key type specified after KEY= in BUILD.	Key types may be: B, I, D, R, L, N, P, *. Enter one of correct types.
1018	'KEY' POSITION VALUE ABSENT.	The key location is missing from KEY= in BUILD command.	Enter required <i>keylocation</i> parameter following <i>keytype</i> in KEY= specification.
1019	'KEY' POSITION VALUE INVALID.	Invalid keylocation parameter specified after KEY= in BUILD.	Key location is specified as integer between 1 and number of bytes in record.
1020	'KEY' SIZE VALUE REQUIRED AND ABSENT.	The key size is missing from KEY= in BUILD command.	Enter required <i>keysize</i> parameter after <i>keylocation</i> in KEY= specification.
1021	'KEY' SIZE VALUE INVALID.	Invalid keysize parameter specified after KEY= in BUILD.	Key size is specified as the number of bytes in the key; refer to table 2-2 for legal sizes for each key type.

Table 5-17. KSAMUTIL Error Codes and Messages (continued)

CODE	MESSAGE	MEANING	ACTION
1022	'KEY' BLOCKING FACTOR VALUE INVALID.	Invalid key blocking parameter specified after KEY= in BUILD.	Specify <i>keyblocking</i> as an even number equal to or greater than 4; or omit for key blocks with four keys per block.
1023	Reserved for future use.		
1024	Reserved for future use.		
1025	'KEY' 'DUPLICATE' EXPECTED.	Key word DUP or DUPLICATE expected in KEY= specification.	Enter DUP or DUPLICATE or remove terminating commas.
1026	'DISC' MUST BE FOLLOWED BY '='.	Key word DISC in BUILD command was specified without =.	Reenter DISC= followed by up to 3 parameters describing disc file, or omit for defaults.
1027	'DISC' NUMBER OF RECORDS VALUE INVALID.	Value of <i>numrecs</i> parameter to DISC= not a positive integer.	Enter maximum number of records as file size, or omit for default value of 1023 records.
1028	'DISC' NUMBER OF EXTENTS VALUE INVALID.	Value of <i>numextents</i> not in range 1-32.	Enter integer between 1 and 32, or omit for default value of 8 extents.
1029	'DISC' INITIAL ALLOCATION VALUE INVALID.	Value of <i>initalloc</i> not in range 1-32.	Enter integer between 1 and 32, or omit for default value of 1 extent allocated when file is opened.
1030	'LABELS' NOT FOLLOWED BY '=' OR BY TOO MANY PARAMETERS.	Key word LABELS in BUILD command was specified without = or had more than 1 parameter.	Reenter LABELS= followed by one parameter to specify number of user labels, or omit for default of 0.
1031	'LABELS' NUMBER OF LABELS VALUE INVALID.		
1032	'FIRSTREC' NOT FOLLOWED BY '=' OR BY TOO MANY PARAMETERS.	Key word FIRSTREC in BUILD command was specified without = or had more than 1 parameter.	Reenter FIRSTREC= followed by starting record number, or omit to start numbering records with zero.
1033	'FIRSTREC' STARTING RECORD NUMBER MUST BE 0 OR 1.	Value other than 0 or 1 entered for first record number.	Enter correct value or omit for default of 0.
1034	'CODE' NOT FOLLOWED BY '=' OR BY TOO MANY PARAMETERS	Key word CODE in BUILD command was specified without = or had more than one parameter.	Reenter CODE= followed by <i>filecode</i> , or omit for file code of zero.

Table 5-17. KSAMUTIL Error Codes and Messages (continued)

CODE	MESSAGE	MEANING	ACTION
1035	'CODE' FILE NUMBER VALUE INVALID.	Value not in range 0 through 1023 entered for file code.	Enter positive integer between 0 and 1023, or omit for default of 0.
1036	'KEYDEV' FOLLOWED BY TOO MANY PARAMETERS.	Key word KEYDEV= in BUILD command was specified with more than 1 parameter.	Reenter with one parameter to specify device class or logical device number of key file, or omit for DISC.
1037	'KEYDEV' MUST BE FOL- LOWED BY '='.	Key word KEYDEV not followed by =.	Reenter KEYDEV=, or omit for default device class DISC.
1038	'KEYDEV' DEVICE PARAM- ETER VALUE TOO LONG OR ABSENT.	Key word KEYDEV= must be followed by valid device parameter.	Reenter with device class specified as 1 to 8 alpha- numeric characters begin- ning with letter, terminated by non-alphanumeric char- acter, or reenter with logical device number, or omit for default DISC.
1039	'KEYFILE' NOT FOLLOWED BY '=' OR BY TOO MANY PARAMETERS.	Key word KEYFILE in BUILD command was specified with- out = or had more than 1 parameter.	Reenter KEYFILE= fol- lowed by actual file desig- nator of key file.
1040	KEY FILE NAME TOO LONG OR ABSENT.	File name specified as KEY- FILE= parameter is more than 8 characters or was omitted.	Reenter KEYFILE= with correct file name format. (Refer to BUILD descrip- tion in manual.)
1041	'KEYENTRIES' NOT FOL- LOWED BY '=' OR BY TOO MANY PARAMETERS.	Key word KEYENTRIES in BUILD command was specified without =, or had more than 1 parameter.	Reenter KEYENTRIES= followed by the maximum number of primary key entries expected in the key file, or omit for default of <i>numrecs</i> value from REC=parameter.
1042	'KEYENTRIES' NUMBER OF ENTRIES VALUE INVALID.		
1043	KEYWORD SPECIFICATION IN THIS COMMAND IS IN- VALID .	A key word specified as a KSAMUTIL command parameter is misspelled or not in syntax.	Check command syntax for correct key word and/or spelling; reenter correctly.
1044	DELIMITER AT THE END OF A SPECIFICATION IS INVALID.	A delimiter follows command specification in KSAMUTIL command.	Remove delimiter or follow with rest of command.
1045	THE NUMBER OF PARAM- ETERS IN THIS COMMAND IS INVALID.	Too many or too few param- eters specified in a KSAMUTIL command.	Check command syntax and reenter with the correct number of parameters.

Table 5-17. KSAMUTIL Error Codes and Messages (continued)

CODE	MESSAGE	MEANING	ACTION
1046	A PARAMETER VALUE IS INVALID. 'TEMP' WAS EXPECTED.	The key word TEMP was expected as a parameter in PURGE or RENAME commands.	Check command syntax, reenter with correct parameter value.
1047	Reserved for future use.		
1048	Reserved for future use.		
1049	Reserved for future use.		
1050	Reserved for future use.		

SPOOK ERROR MESSAGES

Two types of error messages are issued by SPOOK: warning messages and error messages. Both types are summarized in table 5-18, with warning messages denoted by a W and error messages by an E.

Warning messages typically indicate an inability to initiate a requested command, or truncation of some of the output from an executed command. They appear in this format:

`*WARNING = msgno * . . . message`

In this format, *msgno* is a two-digit code for the message and *message* is the message text.

Error messages may occur immediately after command entry, when a command syntax error or an illegal parameter is detected. They may also appear following displays from SHOW, PURGE, INPUT, or OUTPUT operations to indicate that the requested operation did not take place for a particular spoolfile. They appear in this format:

`[#FILE] *ERROR = msgno [BYTE = byteno] * . . . message`

The notation *#FILE* appears only in messages pertaining to output displays; *msgno* is the two-digit code for the message; *byteno* identifies the erroneous character causing a syntax or parameter error; *message* denotes the message text.

Table 5-18. SPOOK Messages

MSG NO.	TYPE	MESSAGE	MEANING	ACTION
1	W	NOT INTER-ACTIVE SESSION	You tried to initiate SPOOK during batch job.	Log-on in session mode, initiate SPOOK again.
2	W	END OF FILE	SPOOK encountered end-of-file indicator within your response to prompt for input.	Run SPOOK again and respond to prompt correctly.
3	W	TOO MANY FILES	You have referenced too many files in your last command for SPOOK's file directory to handle. For instance, you may have requested SHOW for all files when very many exist in system.	Re-issue command for fewer files.
4	W	INSUFFICIENT CAPABILITY	You requested operation that demands an MPE capability that you do not possess, such as System Manager, Account Manager, or Privileged Mode.	Re-enter command with less restrictive parameters or select new command.
19	E	IMPOSSIBLE INTERNAL ERROR	System error internal to SPOOK occurred.	Call your HP Customer Engineer.
20	E	INVALID COMMAND NAME	You entered improper command name.	Re-enter command with proper name.

Table 5-18. SPOOK Messages (Continued)

MSG NO.	TYPE	MESSAGE	MEANING	ACTION
21	E	COMMAND NAME TOO BIG	You entered command name that exceeded six characters.	Re-enter command with proper name.
22	E	PROMPT I/O ERROR	Input/output system transmission error occurred while SPOOK was writing prompt to your terminal. SPOOK attempts to write prompt again.	
23	E	INPUT I/O ERROR	Input/output system transmission error occurred while SPOOK was reading input from your terminal. SPOOK again attempts to read INPUT.	
24	E	UNABLE TO CLOSE FILE	Spook cannot close spoolfile, as when it fails to return previous TEXT file to system during execution of new TEXT command.	Re-enter last command again.
25	E	UNABLE TO PURGE FILE	SPOOK cannot delete spoolfile you referenced in PURGE command.	Re-enter PURGE command again.
26	E	FILE READ ERROR	SPOOK cannot read spoolfile currently accessed by TEXT command during FIND or LIST operation.	Request FIND or LIST operation again; if this fails, request TEXT operation for this file again and then request FIND or LIST operation.
27	E	FILE FCONTROL ERROR	SPOOK cannot perform an input/output control operation, such as re-winding tape.	Request operation again.
28	E	FILE NOT 'READY'	You attempted to access spoolfile that is not in READY state; for example, perhaps you tried TEXT operation on an ACTIVE file.	Select another file or wait until state of desired file changes.
29	E	UNABLE TO OPEN FILE	SPOOK cannot open requested spoolfile in TEXT or PURGE command.	Select another file or wait until this spoolfile enters READY state.
30	E	INPUT FILE NOT ALLOWED	You cannot use this command to access input spoolfile.	Select output spoolfile or enter different command.
31	E	FILE NOT FOUND	SPOOK cannot locate spoolfile you requested.	Check to determine if you referenced correct file name or <i>devicefileid</i> , and re-enter command.
32	E	INVALID FILE ID	You referenced an incorrect <i>devicefileid</i> .	Check with SHOW command to ensure that this <i>devicefileid</i> exists on system, and re-enter command.
33	E	UNEXPECTED CHARACTER	Your last command included syntax error.	Check proper syntax and re-enter command.

Table 5-18. SPOOK Messages (Continued)

MSG NO.	TYPE	MESSAGE	MEANING	ACTION
34	E	USER NAME TOO BIG	You referenced user name longer than eight characters.	Re-enter correct name.
35	E	USER NOT ACCESSIBLE	You tried to access spoolfile in improper user domain, or referenced user name not defined in system.	Select proper name and re-enter command.
36	E	ACCOUNT NAME TOO BIG	Referenced account name was longer than eight characters.	Re-enter correct name.
37	E	ACCOUNT NOT ACCESSIBLE	You tried to access spoolfile in improper account, or referenced account name not defined in system.	Select proper name and re-enter command.
38	E	INVALID LINE MNEMONIC	You did not enter FIRST or LAST parameter properly in the FIND or LIST command.	Check command syntax and re-enter it properly.
39	E	INVALID LINE NUMBER	Referenced record number was out-of-range or illegal (perhaps containing an alphabetic character) in FIND or LIST command.	Re-enter command properly.
40	E	INVALID LINE COUNT	You used invalid <i>count</i> parameter in FIND or LIST command.	Check syntax and re-enter command properly.
41	E	INVALID LINE RANGE	Beginning-record parameter value exceeded last-record parameter value in FIND or LIST command.	Re-enter command with correct parameter values.
42	E	NON TERMINATED CHARACTER STRING	You omitted at least one of the quotation marks surrounding <i>string</i> parameter in FIND command.	Re-enter command with quotation marks around string.
43	E	INVALID OPTION NAME	You used an improper keyword in ALTER or MODE command.	Check command syntax and re-enter command properly.
44	E	INVALID OPTION SEPARATOR	You omitted equal sign following keyword in ALTER or MODE command.	Re-enter command properly.
45	E	INVALID OPTION PARAMETER	Improper parameter followed keyword in ALTER or MODE command.	Check command syntax and re-enter command properly.
46	E	NO TEXT FILE	FIND or LIST operation attempted for spoolfile not opened by TEXT command.	Enter TEXT command for this spoolfile, then enter FIND or LIST.
47	E	FILE NOT 'READY/OPEN'	ALTER operation requested for spoolfile not in READY or OPEN state.	Select another spoolfile or command - it is too late to access this spoolfile.
48	E	TEXT FILE NOT ALLOWED	You tried to access current TEXT file through command that cannot request this file.	Select another command or spoolfile.

Table 5-18. SPOOK Messages (Continued)

MSG NO.	TYPE	MESSAGE	MEANING	ACTION
49	E	MISSING SEMI-COLON	You used another character in place of required semi-colon in INPUT or OUTPUT command.	Re-enter command correctly.
50	E	UNABLE TO OPEN TAPE FILE	SPOOK cannot open requested tape file during INPUT or OUTPUT command execution.	Check to see if tape unit is on-line or if tape is properly mounted.
51	E	UNABLE TO CLOSE TAPE	SPOOK cannot close requested tape file during INPUT or OUTPUT command execution.	Unload tape file manually.
52	E	INVALID TAPE FILE	You entered improper file designator in INPUT or OUTPUT command.	Check preceding FILE command, and be sure you have used proper back-reference format in all commands.
53	E	INVALID TAPE FORMAT	In an INPUT command, you referenced a tape file not previously stored through OUTPUT command.	Select new tape or command.
54	E	TAPE FILE READ ERROR	SPOOK cannot read tape file during INPUT or OUTPUT command operation.	Re-enter command.
55	E	TAPE FILE WRITE ERROR	SPOOK cannot write to tape file during INPUT or OUTPUT command operation.	Re-enter command.
56	E	USER ACCOUNT NOT ALLOWED	You tried to reference spoolfile by its <i>username.acctname</i> in PURGE command, but this type of reference is not allowed.	Re-enter command with proper specific file reference.
57	E	NO EQUIVALENT DEVICE	During INPUT operation, SPOOK encountered file for which no equivalent appropriate device exists on system, perhaps because spoolfile was previously output on different system.	See your computer operator.
58	E	NO EQUIVALENT CLASS	During INPUT operation, SPOOK encountered file for which no appropriate equivalent device class name is defined in system, perhaps because spoolfile was previously output on different system.	See your computer operator.
59	E	NO ROOM IN DEVICE TABLE	SPOOK cannot restore all spoolfiles requested in INPUT command because spoolfile directory in system is full.	Re-enter INPUT command later.
60	E	MULTI-REEL ABORT	You aborted a multi-reel INPUT or OUTPUT operation by entering N in response to the prompt CHANGE REELS ON LDEV nn? (Y/N)	If this action was a mistake, re-enter INPUT or OUTPUT command to begin operation again.

MEMLOGAN ERROR MESSAGES

When MEMLOGAN encounters an operational error, it displays information describing the error and terminates. If the error was detected by the MPE File Management System for a file maintained by MEMLOGAN, the information displayed consists of the File Information Display (described in Appendix A), followed by one of the messages:

- * OUT FILE ERROR * For errors encountered while writing output display.
- * LOG FILE ERROR * For errors encountered while reading the MEMLOG file.

If an error is detected by MEMLOGAN rather than by the MPE File Management System, one of the messages in table 5-19 is displayed.

Table 5-19. MEMLOGAN Error Messages

MESSAGE	MEANING	ACTION
* MEMLOGAN ERROR: 1 *	MEMLOGAN cannot lock the MEMLOG file for exclusive use.	These errors indicate a system problem. Contact your HP Systems Engineer.
* MEMLOGAN ERROR: 2 *	MEMLOGAN cannot unlock the MEMLOG file to release it for access by other processes.	These errors indicate a system problem. Contact your HP Systems Engineer.

MENTIMER ERROR MESSAGES

When an error occurs while MENTIMER is running, one of the messages shown in table 5-20 is displayed.

Table 5-20. MENTIMER Error Messages

MESSAGE	MEANING	ACTION
INVALID PARM (DELAY) VALUE	You entered invalid value for <i>n</i> in :RUN command to execute MENTIMER. Current logging interval remains unchanged and MENTIMER terminates.	Re-run MENTIMER with appropriate <i>n</i> value.
MEMORY LOGGING PROCESS NOT ACTIVE	MEMLOGP was terminated before you requested MENTIMER. (This termination may occur, for instance, if a File Management System error occurs when MEMLOGP attempts to access the log file.) MENTIMER terminates.	When MEMLOGP is active again, re-run MENTIMER.
MEMLOGP TIMER ENTRY NOT FOUND	Either memory-logging hardware is absent from system or MEMLOGP is currently updating log file. Logging interval is changed in either case.	If memory-logging hardware exists on system, run MENTIMER again to ensure that MEMLOGP recognizes new interval immediately.

DATA COMMUNICATIONS ERROR MESSAGES

SECTION

VI

HP 3000 Data Communications include these systems: the Real-Time Programmable Controller, the 2780/3780 Emulator, and Distributed Systems/3000.

Error messages that may result from operation of the Real-Time Programmable Controller are described in the following tables:

Cross-Generator error messages	Table 6-1
Downloading error messages	Table 6-2

Error messages that may result from operation of the 2780/3780 Emulator are described in the following tables:

2780/3780 Emulator error messages	Table 6-3
2780/3780 Emulator CS error irrecoverable error codes	Table 6-4
2780/3780 Emulator CS error recoverable error codes	Table 6-5
2780/3780 Emulator CS error messages frequently issued	Table 6-6

Error messages and error codes that may result from Distributed Systems/3000 are described in the following tables:

Communication Link error codes	Table 6-7
Line Opening Failure error numbers and messages	Table 6-8
Remote Hello error codes	Table 6-9
Remote File Access error codes	Table 6-10
Program-to-Program error codes	Table 6-11
Console Operator error codes	Table 6-12

An error code that may result from more than one activity may be listed in more than one table.

REAL-TIME PROGRAMMABLE CONTROLLER

Messages issued by the Real-Time Programmable Controller are sent to the HP 3000 \$STDLIST device being used for the particular job or session. Error messages issued by RTE-C are sent to the RTE-C console and are not discussed here.

The errors diagnosed by the Real-Time Programmable Controller may occur during system generation while using the cross-generator (XRTGEN) or during downloading operations while using DNLDSYS or DNLDUSER. The cross-generator messages are listed in table 6-1; the downloader messages in table 6-2.

Table 6-1. R-T Programmable Controller Cross Generator Error Messages

MESSAGE	MEANING	ACTION
DUPLICATE PROGRAM NAME	Attempt was made to relocate same program name more than once.	Respond to NAME&PARMS? prompt with unique program name.
EOD ON COMMAND INPUTFILE	EOD was encountered on text file. If text file is \$STDIN, command processing terminates. If not \$STDIN, \$STDIN is opened and the Cross Generator continues where the initial text file left off.	
EOF ON COMMAND OUTPUT FILE	EOF was encountered on command file. Terminates.	Redefine file with file size greater than 1000 records.
FAILURE ON FOPEN OF LIST FILE	Unable to open XGNLIST. Terminates.	



Table 6-1. R-T Programmable Controller Cross Generator Error Messages (Continued)

MESSAGE	MEANING	ACTION
FAILURE ON FOPEN OF TEXT FILE (Followed by file information display)	Failed to open XGNTTEXT. Terminates.	Refer to appendix A for discussion of file information display.
FATAL ERROR: XRTCGEN TERMINATED	An irrecoverable error has occurred during processing.	
FILE CLOSE FAILURE (Followed by file information display)	Close failure on list, text, or command file. Terminates.	Refer to appendix A for discussion of file information display.
FILE OPEN FAILURE (Followed by file information display)	Open failure on command file. Asks for another file.	Refer to appendix A for discussion of file information display.
FILE READ FAILURE (Followed by file information display)	Read error on XGNTTEXT. Terminates.	Refer to appendix A for discussion of file information display.
FILE WRITE FAILURE (Followed by file information display)	Write error on XGNLIST or XGNCMND file. Terminates.	Refer to appendix A for discussion of file information display.
INCORRECT SEQUENCE	Interrupt channel is less than 4 or out of sequence. A request is made to re-enter channel number.	
INVALID CHANNEL NUMBER	EQT and INT input incorrectly specified, or channel number is not an octal number.	
INVALID DRIVER NAME	DVRnn is incorrectly specified.	Re-enter driver name correctly.
INVALID EQT NUMBER	An interrupt EQT entry contains an illegal EQT number, or is one greater than was generated during the equipment table phase.	Re-enter EQT number. (Check EQT table for valid numbers.)
INVALID EXECUTION INTERVAL	The execution interval or time is in error on NAME & PARMS input.	Re-enter with valid interval or time.
INVALID LOGICAL UNIT NUMBER	LU number input is illegal.	Re-enter with valid LU number.
NAME ERROR	The specified file name does not start with an alphabetic character, or the interrupt program name is greater than five characters, or a comma was omitted between NAME and PARMS input after the program name.	Re-enter the name correctly.
NUMBER OF ID SEGMENTS EXCEEDED	User attempted to relocate more programs than ID segments available. Terminates.	Re-enter priority.
PARAMETER ERROR	XRTCGEN command parameter is incorrectly specified.	
PRIORITY ERROR	The priority specified for NAME & PARMS is incorrectly specified; e.g., alphabetic, greater than 99, or negative number.	
SYMBOL TABLE OVERFLOW	Prog and INT name exceeds table capacity; maximum is 128 entries. Terminates.	

Table 6-1. R-T Programmable Controller Cross Generator Error Messages (Continued)

MESSAGE	MEANING	ACTION
WRONG CHARACTERISTICS (Followed by file information display)	File has wrong characteristics because: 1. XGNLIST is not ASCII or not input. 2. XGNTEXT is \$NULL or BINARY, or is specified as an output file. 3. XGNCMND is \$NULL or BINARY, or lacks one or more of the following required characteristics: update access, fixed length, 80-byte records, "tape" or "disc."	Refer to appendix A for discussion of file information display.

Table 6-2. R-T Programmable Controller Downloading Error Messages

MESSAGE	MEANING	ACTION
APLDR: 00 BLANK ID SEGMENTS APLDR: ABORTED	DNLDUSER returned a CCG because no ID segments are available to add a user program into the HP 2100. APLDR aborts.	Use the RTE-C RP command at the HP 2100 to release an ID segment for use.
APLDR: COM	DNLDUSER returns a CCG and APLDR aborts, because the absolute program uses common storage which is not within the bounds of the real-time program area.	
APLDR: DUP name	DNLDUSER prints this informational message because name is a previously loaded program. APLDR will try to replace the first two characters of the name with \$\$\$. If it is not unique, APLDR will abort and DNLDUSER will return a CCG.	
APLDR: ID? APLDR: ABORTED	DNLDUSER returns a CCG and APLDR aborts because the special absolute records required by the APLDR to build an ID segment could not be found.	
APLDR: MEM APLDR: ABORTED	DNLDUSER returns a CCG and APLDR aborts because the absolute program contains code which does not fit within the bounds of the available real-time area.	
APLDR: NO name APLDR: ABORTED	DNLDUSER has returned a CCG because RP command was used to activate APLDR but there was no ID segment for the associated program name. APLDR aborts.	Use RTE-C command: OF, name, 8 at the HP 2100 to remove program name from RTE-C system; then continue loading with LO.
APLDR: REM name APLDR: ABORTED	DNLDUSER has returned a CCG because name is a program which is occupying some core needed to load the program file specified by DNLDUSER. APLDR aborts.	

Table 6-2. R-T Programmable Controller Downloading Error Messages (Continued)

MESSAGE	MEANING	ACTION
CHECKSUM ERROR RECORD #nnnn (followed by file information display)	The file being downloaded to the HP 2100 (by DNLD SYS or DNLD USER) is not in the proper absolute tape format.	Refer to appendix A for discussion of file information display.
*** INCORRECT DEV TYPE *** MUST BE DEV TYPE 40 OR 23	The HP 3000 Universal interface board must have a device type of 40 or, for version C of MPE/3000, type 23. Occurs for DNLD SYS.	Correct device type.
LDN# nn NOT READY	DNLD SYS or DNLD USER has not sent a record to the HP 2100.	Check: 1. to see that BBLL is in a run state and has the proper select code (DNLD SYS); 2. to see that APLDR was activated with the proper logical unit and option (DNLD USER).
*** WARNING *** FILE CODE < > 1041	The absolute HP 2100 file being sent by DNLD SYS or DNLD USER doesn't have a file code of 1041.	Change file code to 1041.

2780/3780 EMULATOR ERROR MESSAGES

All 2780/3780 Emulator error messages are preceded by four asterisks and are followed by one or more numeric codes that narrow down the cause of the error. Table 6-3 lists all the possible Emulator error messages. Table 6-4 and 6-5 list the possible values of two codes used by the CS error message; table 6-6 lists and discusses those CS error codes that are issued most frequently during operation of the 2780/3780 Emulator.

CS ERRORS

CS errors are caused by problems in the Communications System between the HP 3000 and the remote host processor. The errors are of three basic types:

- Line open errors caused by errors establishing the line.
- Line read errors caused by problems sending input to the remote processor.
- Line write errors caused by problems retrieving output from the remote processor.

These three types are indicated by the first code following the CS error message; respectively 0, 1, or 2. Following this code is a 3-digit code to indicate the specific irrecoverable error. Errors are called “irrecoverable” when the system was unable to recover from the error and it is up to the user to take corrective action. A recoverable error code may follow the irrecoverable code, but is never issued alone. These codes are called “recoverable” because the system recovers from them; they are informative for the user. These codes are relevant only when irrecoverable error 207 is issued because the system has failed in successive retry attempts.

Table 6-3. 2780/3780 Emulator Error Messages

MESSAGE	MEANING	ACTION
**** COMMAND ERROR:x	Command cannot be executed; if $x=0$, command is totally unrecognizable $x=1$, command is too long $x=2$, too many parameters.	In a batch job, the job is terminated; correct and rerun. In a session, the command is not executed, a # prompt is issued so you can reenter the command correctly and continue.
**** COMMAND FILE ERROR:x,yy	An error processing the command file used to transmit commands; if $x=0$, FOPEN error prevented the file from being opened $x=1$, FCLOSE error prevented the file from being closed $x=2$, FREAD or FWRITE prevented read or write access to the file. yy is a 2-digit error code returned by the MPE FCHECK procedure.	Check value of yy in list of FCHECK codes (table 2-7). In a job, correct and resubmit; in a session, correct in response to next prompt, and continue.
**** CS ERR:x,yyy,zz	An error is detected during operation of the Communication System. If $x=0$, line open error $x=1$, line read error $x=2$, line write error. yyy is an irrecoverable error code listed in table 6-4. zz is a recoverable error code useful only if $yyy=207$.	Refer to table 6-6 for description of frequently received CS errors. If not in that table, check value of yyy in table 6-4 and if $yyy=207$, check value of zz in table 6-5.
**** INPUT FILE ERROR:x	An error processing the input file used to enter input data; if $x=0$, FOPEN error prevented file from being opened $x=1$, FCLOSE error prevented file from being closed $x=2$, FREAD or FWRITE error prevented read or write access to the file. yy is a 2-digit error code returned by the MPE FCHECK procedure.	Check value of yy in list of FCHECK codes (table 2-7). In a job, correct and resubmit; in a session, correct in response to next prompt and continue.
**** LINE ERROR:x	$x=0$ indicates that the line is not established. You attempted to perform on line I/O using a #RJIN, #RJOUT, #RJLIST, or #RJPUNCH command before establishing the line with #RJLINE. Currently, x has no other value than zero.	In a job, add #RJLINE command to command deck and resubmit job. In a session, issue #RJLINE in response to next prompt and continue.
**** LIST FILE ERROR:x,yy	An error processing the list file used to receive list output. If $x=0$, FOPEN error prevented the file from being opened $x=1$, FCLOSE error prevented the file from being closed $x=2$, FREAD or FWRITE error prevented read or write access to the file $x=3$, file space exceeded. yy is a 2-digit error code returned by the MPE FCHECK procedure.	If $x=0, 1$, or 2 , check value of yy in list of FCHECK codes (table 2-7). Correct the error and resubmit job or continue with session. If $x=3$, redefine the file with larger limits and resubmit job or proceed with session. Determine if entire output data set retrieved and if not, put output commands in next job to retrieve outstanding output.

Table 6-3. 2780/3780 Emulator Error Messages (Continued)

MESSAGE	MEANING	ACTION
****OUT FILE ERROR:x,yy	An error processing the output file (#RJOUT) used to receive output. If x=0, FOPEN error prevented the file from being opened x=1, FCLOSE error prevented the file from being closed x=2, FREAD or FWRITE error prevented read or write access to the file x=3, file space exceeded. yy is a 2-digit error code returned by the MPE FCHECK procedure.	If x=0, 1, or 2, check value of yy in list of FCHECK codes (table 2-7). Correct the error and resubmit job or continue the session. If x=3, redefine the file with larger limits and resubmit job or continue with session. Determine if entire output data set retrieved and if not, put output commands in next job to retrieve outstanding output.
****PROCEDURE ERROR:xx	An error in user procedure specified in Emulator command; either Emulator could not find procedure or procedure contained error. xx is a 2-digit loader error code issued by the MPE Loader.	Be sure that procedure name is correct, the proper library is referenced, and that procedure exists; if not these problems, check procedure for errors. Check value of xx in list of loader error codes (table 2-8 of this manual).
****PUNCH FILE ERROR:x,yy	An error processing the file used to receive punched output. If x=0, FOPEN error prevented the file from being opened x=1, FCLOSE error prevented file from being closed x=2, FREAD or FWRITE error prevented read or write access to file x=3, file space exceeded. yy is a 2-digit error code returned by the MPE FCHECK procedure.	If x=0, 1, or 2, check value of yy in list of FCHECK codes (table 2-7). Correct error and resubmit job or continue with session. If x=3, redefine the file with larger limits and resubmit job or continue with session. Determine if entire output data set retrieved and if not, use output commands in next job to retrieve outstanding output.
****RIN ERROR:0	An illegal Resource Identification Number (RIN) or RIN password was detected.	Correct the RIN or RIN password and resubmit job or reenter command in a session and continue.
****ROUTING ERROR:x	Routed output was received in an unexpected manner; i.e., punched output was expected (#RJPUNCH command being executed) but punched output was received. If x=0, list output data set received when punched expected x=1, punched output data set received when list expected. Error was probably caused by using a #RJLIST or #RJPUNCH when you should have used #RJOUT.	In an interactive session issue an #RJOUT command, and continue session. In a batch job, if job was terminated, add an #RJOUT command to deck and resubmit. (Job terminates when next command is #RJIN, #RJLINE, #RJEOD, or #RJEND.) Determine if all output data set was received and if not, put output commands in next job deck to retrieve outstanding output.
****SOURCE FILE ERROR:x,yy	Error encountered in source file specified by SOURCE= parameter. If x=0, FOPEN error prevented the file from being opened x=1, FCLOSE error prevented the file being closed x=2, FREAD or FWRITE error prevented read or write access to the file. yyy is a 2-digit error code returned by the MPE FCHECK procedure.	Check value of yy in list of FCHECK codes (table 2-7). In a job, correct and resubmit; in a session, correct in response to next prompt and continue.

Table 6-3. 2780/3780 Emulator Error Messages (Continued)

MESSAGE	MEANING	ACTION
****SYNTAX ERROR: <i>x,y</i>	A syntax error encountered probably a result of typing, punching, or otherwise entering command incorrectly. If <i>x</i>=0, a keyword is invalid <i>x</i>=1, keyword is duplicated <i>x</i>=2, command construction not valid <i>x</i>=3, invalid parameter <i>x</i>=4, numeric parameter invalid <i>x</i>=5, required parameter missing. <i>y</i> is an index to the incorrect parameter, such as 3 if the third parameter is incorrect, 4 if the fourth parameter, and so forth. Note that all non-keyword parameters are counted whether or not they are all supplied.	In a job, correct the command and resubmit the job. In a session, enter the command correctly in response to the next prompt and continue.

Table 6-4. 2780/3780 Emulator CS Error Irrecoverable Error Codes

CODE	MEANING
0	Request completed successfully
6	Invalid driver name
7	Driver not in system
8	Driver not compatible with line's attributes
9	This line not configured to change drivers
10	Undefined line
11	Line not available
12	Not CS line
13	CS line is use
14	ID sequence length greater than 16 characters
15	Buffer size greater than 4096 words
17	Phone number length greater than 20 characters
18	Character in phone number was not numeric or a hyphen
19	Local mode not compatible with line type
24	Could not open trace file
25	Trace file record size was too small
26	User does not have CS capability
28	No line specified
31	Insufficient memory space
48	No virtual memory available for trace and/or buffering
53	I/O error on trace file
57	Operator responded "no" to a dial message
58	No phonelist for dial attempt

Table 6-4. 2780/3780 Emulator CS Error Irrecoverable Error Codes (Continued)

CODE	MEANING
101	Nonresponding SSLC
102	SIO transfer error
103	Modem became not ready
104	Carrier loss occurred on model
105	SIO timing error
151	Connect timeout occurred
153	Remote station rejected the connection
154	Power failure occurred
155	Local timeout occurred
156	An internal error was detected by the CS driver
157	Remote protocol error occurred
158	Remote station sent shutdown sequence and disconnected
159	Remote sent shutdown sequence and disconnected before the last I/O request was issued
160	An internal error was detected by MPE
201	Current I/O operation aborted
202	Invalid Emulator request was detected by CS driver
203	Remote not ready to receive (a NAK was received in response to a line bid)
204	Remote rejected the line bid
205	Remote primary station bid for the line while local station was also bidding
206	Remote has requested to send (an RVI sequence was received)
207	Retry count exhausted
208	Unexpected text was received
209	Receive timeout occurred
210	Remote sent end-of-transmission
211	Remote sent end-of-transmission sequence and disconnected before the last I/O request was issued
212	During the execution of a conversational write with the output buffer specified as the input buffer, the remote station requested a resend of the output buffer but its contents had been modified while receiving from the remote.
213	Remote sent an ACK sequence in response to local acknowledgment
214	Remote sent a NAK sequence in response to local acknowledgment
215	Remote sent an RVI sequence in response to local acknowledgment
217	Line bid timeout occurred while waiting for the remote's line bid

Table 6-5. 2780/3780 Emulator CS Error Recoverable Error Codes

CODE	MEANING
0	No recoverable error occurred
1	Invalid ID sequence received
2	Received unintelligible sequence
3	Block check character error
4	Response timeout occurred

Table 6-5. 2780/3780 Emulator CS Error Recoverable Error Codes (Continued)

CODE	MEANING
5	Received incorrect acknowledgment
6	Remote attempted to bid for the line
7	No response to line bid
8	Received unintelligible sequence after sending text
9	Received enquiry character after sending text
10	Remote requested a resend of local's last response
11	Remote requested a resend of last text
12	Received end-of-transmission character while line was in control state.
13	Received text overflow
14	Data overrun occurred on SIO multiplexer
15	Data transfer error occurred on SIO multiplexer
Note: These codes are appended to the CS error message when 15 attempts at recovery have failed (a total of 16 tries); the code follows a CS 207 error.	

Table 6-6. 2780/3780 Emulator CS Error Messages Frequently Issued

MESSAGE	MEANING	ACTION
****CS ERR 0, 11	Line is not available.	Resubmit job when line is available; in a session, terminate and restart Emulator when line becomes available.
****CS ERR 0, 12	Logical device number or device class name not correct in :FILE RJLINE;DEV=command, or :FILE RJLINE;DEV= command was issued but there is no Synchronous Single Line Controller (SSLC) with the device class name RJLINE.	In a job, correct #RJLINE and resubmit job; in a session, enter correct #RJLINE command in response to next prompt and continue.
****CS ERR 0, 13	Another user is currently using the line.	Resubmit job when line is available; in a session, terminate and restart Emulator when line becomes available.
****CS ERR 1, 57 ****CS ERR 2, 57	A NO was entered in response to the DIAL REQD message and the telephone at the remote site was busy or did not answer.	Terminate the session and try again later.
****CS ERR 1, 101 ****CS ERR 2, 101	The Synchronous Single Line Controller (SSLC) failed to respond to an I/O instruction; possibly something is wrong with the SSLC itself.	Reissue the command that caused the error. If the same error occurs, call your HP representative.
****CS ERR 1, 102 ****CS ERR 2, 102	A timing or parity error occurred in the HP 3000 SIO bus; possibly a problem in the SIO bus itself.	Reissue the command that caused the error. If the same error occurs, call your HP representative.

Table 6-6. 2780/3780 Emulator CS Error Messages Frequently Issued (Continued)

MESSAGE	MEANING	ACTION
****CS ERR 1, 103 ****CS ERR 2, 103	The "Data Set Ready" (CC) signal from the MODEM has changed from "set" to "clear"; that is, the communications link has been terminated. Possible causes are: • The wrong transmission code was specified in the #RJLINE command. • Log-on did not adhere to remote processor log-on conventions. • Remote processor timed out while input data was being entered at an interactive terminal because data not entered quickly enough. • Remote processor shut down in the middle of a job. • The telephone connection is bad.	 Correct the LINECODE= parameter in the #RJLINE command. Correct the log-on card or the #RJIN command that sends it and restart the session. Restart session and enter data more quickly. Call the operator at the remote site to find out what the problem is. If switched, restart the session and dial again. If private, run a job that has worked in the past. If it fails, call your HP representative; if it works, check the data transmitted by your most recent job for the cause.
****CS ERR 1, 105 ****CS ERR 2, 105	Refer to Meaning and Action for ****CS ERR 1,102/****CS ERR 2,102.	
****CS ERR 1, 153 ****CS ERR 2, 153	Bid for line was refused; that is, a request for transmission was initiated by a #RJIN command and the remote processor responded to the ENQ (inquiry with a NAK (no acknowledgment)). • The remote processor does not want to receive input at this time. • The necessary terminal identification is incorrectly specified or is missing altogether.	Terminate the session and try again or call the operator at the remote site to determine the cause of the problem. Correct the ID= parameter in the #RJLINE command and reenter the command.
****CS ERR 1, 158 ****CS ERR 2, 158	A DLE/EOT sequence was received. This sequence indicates that the remote processor is terminating the communications link, possibly because an input deck is incorrectly set up. Note: Some RJE systems use DLE/EOT as a job terminator after transmitting the last available output. If this is a characteristic of the RJE system with which you are communicating and you were receiving output when the message was issued, ignore the message. This message can be inhibited by using the XEND parameter in #RJLINE.	Check input deck for: wrong emulator type specified in #RJLINE command; COMPRESS=NO (3780) or TRUNCATE=NO not specified in #RJIN when remote processor expects uncompressed or truncated input during log-on; or no log-on in deck. If you find errors, correct the input deck and resubmit. If your deck seems correct, call the operator at the remote site to find out what the problem may be. Check Note in Meaning column.
****CS ERR 1, 201	Operator abort; the computer operator at the HP 3000 computer system entered an =ABORTIO command for the Synchronous Single Line Controller (SSLC).	Ask the operator.

Table 6-6. 2780/3780 Emulator CS Error Messages Frequently Issued (Continued)

MESSAGE	MEANING	ACTION
****CS ERR 2, 203	Refer to Meaning and Action for ****CS ERR 1,153/****CS ERR 2,153.	
****CS ERR 2, 204	Refer to Meaning and Action for ****CS ERR 1,153/****CS ERR 2,153.	
****CS ERR 2, 205	An ENQ was received in response to a line bid when the HP 3000 is a secondary station; that is, in response to the ENQ generated by a #RJIN command. This means the remote processor wants to transmit something rather than to receive.	Issue an #RJOUT command to find out what the remote processor wants to transmit.
****CS ERR 2, 206	An RVI was received when a positive or negative acknowledgment (ACKO, ACK1, WACK, or NAK) was expected. This means the remote processor has a high priority message to transmit.	Issue an #RJOUT command to find out what the remote processor wants to transmit.
****CS ERR 2, 207,2	A NAK was received in response to a transmission block on 16 successive tries. Possibly caused by: • Mispunched data or attempt to transmit binary data in non-transparent mode; this can generate bisynch control codes in the data. • A bad communications line that is causing irrecoverable parity errors. • A hardware or software malfunction at either end of the line.	Check emulator type specified in #RJLINE command to be sure it is the correct type. If you are transmitting binary data, be sure XPARENT=YES is specified in #RJIN command. If you are transmitting ASCII or EBCDIC data check the data for mis-punched characters. If switched, restart the session and dial again. If private, run a job that worked previously; if it fails, call your HP representative; if it runs, something is wrong with the data your most recent job was transmitting. Call your HP representative.
****CS ERR 2, 207,4	Response time-out; the remote processor did not respond within 16 tries (48 seconds) when the Emulator transmitted an enquiry or data block. Possibly caused by: • Wrong transmission code was specified. • Local and remote processor may both be primary stations that are both trying to transmit data as the first I/O operation. • Bad communications line or a hardware or software malfunction at either end of the line.	Correct the LINECODE= parameter in #RJLINE command and reenter #RJLINE. Call the operator at the remote site and coordinate the transmissions. If switched, restart session and dial again. If the same problem recurs, call the remote site to find out if they are having problems. If no problems at remote site, call your HP representative. If private, call the remote site to find out if they are having problems; if they are not, call your HP representative.

Table 6-6. 2780/3780 Emulator CS Error Messages Frequently Issued (Continued)

MESSAGE	MEANING	ACTION
****CS ERR 1, 209	"Receive Initial" time-out; the remote processor did not bid for the line within the allowed time (3 minutes or time specified by WAIT=). Probably caused because the remote processor has no output ready to send. "Receive Continue" time-out; after the remote processor began transmitting output, a period of inactivity occurred in which no data was received within allowed time (3 minutes or time specified by WAIT=). Probably caused by: • An RJE system that terminates the final output transmission by letting the other end of the line time out. • The EOT terminating the final output data set is garbled. • Something has occurred to interrupt the transmission in the middle of a data set.	Try again later. Check your output and if it seems to be complete, ignore the message. Check your output and if it seems to be complete, ignore the message. Check your output. If the time-out occurred in the middle of a data set, issue an #RJEOD command and then reenter the particular Emulator output command.
****CS ERR 2,210	An EOT was received while transmitting data. For some reason, the remote processor is not able to continue. This may, but does not necessarily, indicate that the communications link has been terminated.	If the communications link is still present, retry the #RJIN command. If the communications link was terminated, try to re-establish the link and if it can be re-established, reenter the #RJIN command. If the communications link cannot be re-established or if the #RJIN command continues to fail, call the operator at the remote site and find out what their problem is.
****CS ERR 1,217	Line Bid Timeout. The remote processor did not bid for the line within the allowed time (3 minutes or the specified WAIT=time). The remote processor currently has no output ready to send.	Try again at a later time.

DISTRIBUTED SYSTEMS/3000

The messages in table 6-7 may result from DSLINE, Remote File Access, or Program-to-Program calls. The method of reporting depends on the operation in progress when the error occurs. If you are entering commands, the error will appear as:

60, nnn

If making Remote File Access calls, it will be returned by the FCHECK intrinsic.

If making Program-to-Program calls, it will be returned by the PCHECK intrinsic.

Table 6-8 contains the various error numbers and messages resulting from line opening (DSLINE) failures.

Table 6-9 contains errors that result from a remote hello command. These errors appear as:

60, nnn

The error codes resulting from file access errors are summarized in table 6-10. They are returned by the DSCHECK intrinsic.

The error codes in table 6-11 result from Program-to-Program calls and are returned by the PCHECK intrinsic.

Table 6-12 contains error codes reported to the console operator when a user attempts to establish a communication link.

Table 6-7. Communication Link Error Codes

ERROR CODE	MEANING	ACTION
242	You have an internal DS error. (Probably a software malfunction.)	Contact your HP Customer Engineer.
243	The remote computer did not respond within 16 attempts to establish the line (48 seconds).	
244	There is a software problem in DS at either end of the line.	
245	Receive timeout.	
246	Remote disconnect.	
247	Local timeout.	
248	Connect timeout.	
249	Remote rejected connection.	
250	Carrier lost.	
251	Data set not ready.	

Table 6-7. Communication Link Error Codes (Continued)

ERROR CODE	MEANING	ACTION
252	DS detected a hardware problem with the particular HSI interface board.	Contact your HP Customer Engineer.
253	No operator response to dial.	Re-configure HSI.
254	The requested HSI was not configured properly during system configuration.	
255	Unanticipated error condition.	

Table 6-8. Line Opening Failure Error Numbers and Messages

ERROR NUMBER	MESSAGE	MEANING	ACTION
1	UNKNOWN COMMAND	The command entered was not recognized as a legal command. You probably mistyped the command name (DSLIN or REMOTE HELLO).	Re-enter the command and be sure that the command name is entered correctly.
20,x	SYNTAX ERROR	A delimiter in the parameter list is not permitted in the command, or is not permitted at the point where it was detected. When a qualifying number is shown (x), the bad delimiter is adjacent to the indicated parameter element (usually following it).	Re-enter the command correctly.
22,x	ILLEGAL PARAMETER	A parameter in the command was not recognized as legal. The qualifying number (x) indicates which parameter was bad.	Check the parameter list, and re-enter the command correctly.
26,x	ILLEGAL KEYWORD	A keyword in the command was not recognized as legal. The qualified number (x) indicates which keyword was bad.	Check the keywords, and re-enter the command correctly.
27,x	DUPLICATE KEYWORD	The command was rejected because the same keyword appeared twice in the parameter list. The qualifying number (x) indicates the duplicate keyword.	Re-enter the command without the duplicate keyword.
30,x	INVALID NUMBER	The buffer-size in the LINEBUF parameter is not decimal or is out of range (304 to 4096).	Check the parameter list, and re-enter the command correctly.

Table 6-8. Line Opening Failure Error Numbers and Messages (Continued)

ERROR NUMBER	MESSAGE	MEANING	ACTION
60,55	DS/3000 ERROR	Someone already has exclusive access to the line. or You requested exclusive access to the line and someone is already using it. or The specified HSI has been shut down by the console operator.	Re-enter the command specifying a different HSI or get the console operator to bring up the particular HSI.
60,56	DS/3000 ERROR	You gave an erroneous line specification (<i>dsdevice</i>). There is no HSI with the specified device class name or logical device number.	Re-enter the command using a correct <i>dsdevice</i> parameter.
60,201	DS/3000 ERROR	You supplied a remote ID sequence (REMID=) that was rejected by the remote system. or The specified SSLC is already open and you did not specify the currently active remote ID sequence (REMID=).	Check the remote ID (REMID=) and re-enter the ID correctly.
60,202	DS/3000 ERROR	You specified a telephone number (PHNUM=) that was either too long or contained something other than dashes and digits.	Check the telephone number (PHNUM=) and re-enter the number correctly.
60,204	DS/3000 ERROR	You used line opening parameters (PHNUM=, LOCID=, REMID=, or EXCLUSIVE) in a DSLINE;CLOSE command.	Re-enter the DSLINE;CLOSE command omitting PHNUM=, LOCID=, REMID= or EXCLUSIVE parameters.
60,216	DS/3000 ERROR	REMOTE HELLO rejected the connection because the remote system does not have any more virtual terminals available.	
60,243	DS/3000 ERROR	The remote computer did not respond within 16 attempts to establish the line (48 seconds).	
60,244	DS/3000 ERROR	There is a software problem in DS at either end of the line.	

Table 6-8. Line Opening Failure Error Numbers and Messages (Continued)

ERROR NUMBER	MESSAGE	MEANING	ACTION
60,252	DS/3000 ERROR	DS detected a hardware problem with the particular HSI interface board.	Contact your HP Customer Engineer.
60,254	DS/3000 ERROR	The requested HSI was not configured properly during system configuration.	Re-configure HSI.

Table 6-9. Remote Hello Error Codes

ERROR CODE	MEANING	ACTION
60,55	The device is not available. The operator has not executed a =DSL _{LINE} console command; the line is opened exclusively; or the line is in use and you asked for EXCLUSIVE access.	Ask the console operator to enter the =DSL _{LINE} command.
60,56	You specified an invalid <i>dsdevice</i> . You probably mistyped the device name.	Re-enter the <i>dsdevice</i> and be sure the device class name is typed right.
60,214	You issued a REMOTE HELLO command before the DSL _{LINE} command has been issued.	Enter the DSL _{LINE} command before issuing the REMOTE HELLO command.
60,216	REMOTE HELLO rejected the connection because the remote system does not have any more virtual terminals available.	
60,243	Remote is not responding. You did not open a DS line at the remote site or the hardware connection is faulty.	Open the DS line at the remote site. If this fails contact your HP Customer Engineer; it may be a faulty hardware connection.

Table 6-10. Remote File Access Error Codes

ERROR CODE	MEANING	ACTION
55	The device is not available. The operator has not executed a =DSL _{LINE} console command.	Ask the console operator to enter the =DSL _{LINE} command.
56	You specified an invalid <i>dsdevice</i> . You probably mistyped the <i>dsdevice</i> name.	Re-enter the <i>dsdevice</i> and be sure the device class name is typed right.
214	You issued an FOPEN to a remote device prior to executing a REMOTE HELLO.	Enter a REMOTE HELLO prior to issuing any instruction to a remote device.
224	You entered an invalid combination of file equations. (FOPEN cannot execute without recursing.)	Check your file equations and re-enter the equation correctly.

Table 6-11. Program-to-Program Error Codes

ERROR CODE	MEANING	ACTION
206	You specified a slave PTOP function from a Master program on the same line.	Check your program.
207	A slave function was out of sequence (must be GET followed by ACCEPT or REJECT).	Recode the slave program.
208	You specified a master PTOP function from a Master program on the same line as the slave functions.	Check your program.
209	You specified a program by POPEN that does not exist on the slave.	Check your program.
211	The slave has issued a reject.	Check your program.
212	You specified an ID number that is not for DS. (This only happens if the slave is doing a No-wait I/O.)	
213	An error on the first GET intrinsic was issued by the slave (POPEN).	
219	Too many POPENs issued by the master (>4).	
222	You entered a PTOP request prior to doing a POPEN (sequence error).	Check your program.
223	You specified an invalid PTOP buffer-size. PREAD or PWRITE requested a larger buffer than was specified in the POPEN.	Specify a larger buffer-size in the POPEN intrinsic.

Table 6-12. Console Operator Error Codes

ERROR CODE	MEANING	ACTION
101	Non-responding device.	
102	Transfer error.	
103	Data set not ready.	
104	Carrier loss.	
105	Data overrun.	

CONSOLE OPERATOR/SYSTEM SUPERVISOR ERROR MESSAGES

SECTION

VII

Error messages that indicate conditions to be corrected by the console operator or the system supervisor are described in this section. These messages always appear on the system console.

The error messages that occur during operation of the MPE are described in two tables:

Status Messages	Table 7-1
I/O Message	Table 7-2

The error messages that may be displayed during cold load are described in the following tables:

Cold Load Messages	Table 7-3
Directory Errors	Table 7-4
Hardware Halts	Table 7-5

When the system fails during system initialization, the resulting error messages are described in the following tables:

System Failure - System Internals	Table 7-6
System Failure - Memory Management	Table 7-7
System Failure - I/O System	Table 7-8
System Failure - Process & User Related	Table 7-9
System Failure - File System	Table 7-10
System Failure - User Interface	Table 7-11
System Failure - Miscellaneous	Table 7-12
Operating System Hardware Halts	Table 7-13
Abbreviations	Table 7-14



SYSTEM CONSOLE MESSAGES

The messages that appear at the system console may be in one of the following four formats:

?prefix/time/PIN/message reply type

prefix/time/message

?prefix/time/#^J_S number/PIN/message reply type

prefix/time/#^J_S number/message

The *prefix* may be one of the following:

ST - status message

IO - Input/Output message

MS - Message from user

In this manual, only the ST and IO messages are described since these occur as a result of errors; the MS messages sent by users are informative and are not included in a list of error messages.

The other items in the message formats are:

Time is the time the message was sent.

PIN is the process identification number of the message sender.

#J number is the job number of the sender.

#S number is the session number of the sender.

Message is an ASCII string input by the sender.

STATUS MESSAGES

Status (ST) messages provide the console operator with the status of jobs and sessions, devices, and devicefiles encountered during system operation. Table 7-1 contains a list and descriptive information on each status message that may be issued.

I/O MESSAGES

I/O messages appear as a result of errors while requesting certain actions of the I/O devices. The I/O error message descriptions are shown in table 7-2.

Table 7-1. System Console Status Messages

MESSAGE	MEANING	ACTION
ALL JOBS LOGGED OFF	You aborted all executing jobs with a =LOGOFF or you shut down the system (=SHUTDOWN).	You must enter the =LOGON command to re-establish the pre-log off limits.
DATA COMMAND ERROR <i>number, number</i> ON LDEV # <i>ldn</i>	A data command error was detected on the indicated device (the bracketed numbers are the command interpreter error numbers).	The system detected an invalid :DATA command. Correct syntax for command is: :DATA(<i>jobname</i>) <i>username</i> (<i>userpass</i>) <i>acctname</i> (/ <i>acctpass</i>)(<i>filename</i>) Most common errors-undefined user or account specified, or groupname specified (not required). If not user error, use =ACCEPT DATA, <i>ldn</i> command to allow :DATA from this device.
DATA IN INVALID DEVICE, LDEV # <i>ldn</i>	A user input :DATA on a non-data accepting device.	You must intervene by either lowering the job fence or raising the job's input priority.
DEFERRED JOB INTRODUCED ON LDEV # <i>ldn</i>	A user entered a batched job on a logical device (<i>ldn</i>) whose input priority is less than the currently defined job fence.	
:HELLO COMMAND ERROR < <i>enum,pnum</i> > ON LDEV # <i>ldn</i>	A :HELLO command error was detected on the indicated <i>ldn</i> which cannot be printed on the default list device. (<i>enum</i> and <i>pnum</i> correspond to command interpreter error and parameter numbers, respectively.)	If not user error, use =ACCEPT JOBS, <i>ldn</i> to enable :HELLO from this device.
:HELLO ON INVALID DEVICE, LDEV # <i>ldn</i>	A user input :HELLO either on a non job-accepting device or on a non-interactive device.	If not user error, use =ACCEPT JOBS, <i>ldn</i> to enable :HELLO from this device.
ILLEGITIMATE ACCESS ON LDEV # <i>ldn</i> (fully qualified jobname)	You made one of the following errors: 1. A user specified a non-existent account, user or group. 2. A user specified an illegal password. 3. A user did not specify a group and no home group was assigned by default. Fully qualified jobname= (<i>jobname</i> ,) <i>username.acctname</i>	If the accessor is a legitimate user of the system, instruct him to: 1. Specify the proper account name, user name or group. 2. Specify the proper password. 3. Specify a group name.
:JOB COMMAND ERROR < <i>enum,pnum</i> > ON LDEV # <i>ldn</i>	A :JOB command error was detected on the indicated <i>ldn</i> which cannot be printed on the default list device. (<i>enum</i> and <i>pnum</i> correspond to command interpreter error and parameter numbers, respectively.)	If the accessor is a legitimate user of the system, instruct him to consult the list of command interpreter error messages, correct his :JOB command and resubmit the job. (Refer to the MPE <i>Commands Manual</i> .)

Table 7-1. System Console Status Messages (Continued)

MESSAGE	MEANING	ACTION
JOB ON INVALID DEVICE, LDEV # <i>ldn</i>	A user input a :JOB on a non job-accepting device.	If not a user error, use the =ACCEPT JOBS, <i>ldn</i> to allow :JOBS from this device.
JOB OVERLOAD,TYPE <i>number</i>	It was not possible to initiate a job because of insufficient system resources, as indicated by the TYPE number: 0 = no process control block (PCB) available 1 = no data segment table (DST) available for stack 2 = no DST available for job information table (JIT) 3 = no DST available for job directory table (JDT) 4 = no job process count table (JPCNT) entry available 5 = no DST available for file system data segment	Recovery of this type of overload is automatic. However, if the condition occurs frequently it indicates a chronic condition that should be remedied. The System Manager can enlarge the number of entries in the appropriate table using the :SYSDUMP command.
LDEV # <i>ldn</i> IN USE BY DIAGNOSTICS	You have attempted to bring UP a device without first TAKEing it from diagnostics.	With the =TAKE command, get the device from diagnostics, then bring the device =UP.
LDEV # <i>ldn</i> IN USE BY FILE SYSTEM	You have attempted to assign a device to diagnostics without taking the device off-line.	With the =DOWN command, take the device off-line then assign the device to diagnostics using the =GIVE command.
LDEV # <i>ldn</i> IN USE, DOWN PENDING	You have issued a =DOWN command, but the device is in use by the file system.	As soon as the use-count goes to zero, the device will be DOWNed and you will be notified.
LDEV # <i>ldn</i> OFFLINE	You are trying to access a device that is no longer available to the file system.	If the device is functional, use the =UP <i>ldn</i> command to place device on-line.
LOG FILE NUMBER <i>number</i> ERROR # <i>number</i> . LOGGING STOPPED	A fatal log file error occurred. Logging is disabled. (Refer to the error numbers explained in Section VI of the <i>MPE System Manager/Supervisor Manual</i> .)	To re-enable logging after this error you must shut the system down (when convenient) and Coolstart the system.
LOG FILE NUMBER <i>number</i> ERROR # <i>number</i> . LOGGING SUSPENDED	A recoverable Log File error occurred. Logging is temporarily suspended. (Refer to the error numbers explained in Section VI of the <i>MPE System Manager/Supervisor Manual</i> .)	Recovery is very dependent upon cause of error. Most likely errors are log file space problems or duplicate log file names. To re-enable logging, the System Manager or a user with System Supervisor (OP) capability must enter the :RESUMELOG command.
LOG FILE NUMBER <i>number</i> IS 1/2 FULL	The total space now occupied by the log file data is half the allotted file size.	Information only.
LOG FILE NUMBER <i>number</i> IS 3/4 FULL	The total space now occupied by the log file data is 3/4 the allotted file size.	Information only.

Table 7-1. System Console Status Messages (Continued)

MESSAGE	MEANING	ACTION
LOG FILE NUMBER <i>number</i> . LOGGING RESUMED	You successfully executed a :RESUMELOG command.	Information only.
LOG FILE NUMBER <i>number</i> ON	The System Supervisor created a new log file. This message ap- pears if logging is enabled before the WELCOME message after cold load. When this message appears while the system is run- ning, it indicates that the previ- ous current log file has been closed. File name is LOGxxxx where xxxx = number (with leading zeros).	Information only.
LOGOFF	A job has logged off.	Information only.
LOGON FOR: <i>fully qualified jobname</i> ON LDEV # <i>ldn</i>	A job has logged on.	Information only.
MAX SPOOFLE KILO- SECTORS IN USE, ALL QUEUES SHUT	The configured maximum num- ber of spooled device file kilo- sectors are in use. MPE shut all input and output queues (equiva- lent to =SPOOL <i>ldn</i> ,SHUTQ), so that users are automatically pre- vented from creating new spooled devicefiles.	When space becomes available, you may re- open the queues with the =SPOOL <i>ldn</i> , OPENQ command.
NO MORE SPACE IN SPOOL CLASS, ALL QUEUES SHUT	There is no more space in the (disc) class SPOOL. MPE shut all input and output queues (equivalent to =SPOOL <i>ldn</i> , SHUTQ), so that users are auto- matically prevented from creat- ing new spooled devicefiles.	When space becomes available, you may re- open the queues with the =SPOOL <i>ldn</i> , OPENQ command.
SP# <i>ldn</i> /# <i>Odevicefileid</i> DEFERRED	The output spooler on the speci- fied <i>ldn</i> has deferred the spooled devicefile with the specified devicefile identification (# <i>Odevicefileid</i>), due to some action made by you (e.g., refus- ing a spooler's forms request).	To allow the deferred devicefile to resume output use the =ALTFILE # <i>Onnn</i> ; OUTPRI=K (where K is a value above the current outfence).
SP# <i>ldn</i> /# <i>O devicefileid</i> DEFERRED, SPOOFLE IO ERROR	The output spooler on <i>ldn</i> has deferred the spooled devicefile with the specified devicefile identification (# <i>Odevicefileid</i>), due to some action made by you (e.g., refusing a spooler's forms request).	To allow the deferred devicefile to resume output use the =ALTFILE # <i>Onnn</i> ; OUTPRI=K (where K is a value above the current outfence).

Table 7-1. System Console Status Messages (Continued)

MESSAGE	MEANING	ACTION
SP# <i>ldn</i> /# <i>l devicefileid</i> DELETED, SPOOLEE IO ERROR	The input spooler on the specified spooler <i>ldn</i> has deleted the spooled device file with the specified <i>devicefileid</i> due to an I/O error on the device <i>ldn</i> .	
SP# <i>ldn</i> /# <i>l devicefileid</i> DELETED, SPOOFLE IO ERROR	The input spooler on the specified spooler <i>ldn</i> has deleted the spooled devicefile with the specified devicefile identification due to a disc I/O error, or a problem obtaining disc space.	Make sure that a sufficient space exists for the spooled devicefile. Have the System Manager :RUN FREE2.PUB.SYS Check free space for all SPOOL class discs. =DELETE unreferenced spooled devicefiles if possible. Allow output spoolers to free up space and try input operation again. Try to recover lost disc space by doing a COOLSTART. If trouble is not disc space, then a disc I/O error is indicated.
SP# <i>ldn</i> /SPOOLED IN	The spooler on the specified spooler <i>ldn</i> has begun input spooling.	Information only.
SP# <i>ldn</i> /SPOOLED OUT	The spooler on the specified spooler <i>ldn</i> has begun output spooling.	Information only.
SP# <i>ldn</i> /STOPPED	A normal termination of a spooler on the specified spooler <i>ldn</i> is confirmed.	Information only.
SP# <i>ldn</i> /STOPPED, NO SUCH DEVICE	You attempted to initiate a spooler on an undefined spooler <i>ldn</i> .	Information only.
SP# <i>ldn</i> /STOPPED, SPOOFLE IO ERROR	The input spooler on the specified spooler <i>ldn</i> has detected a disc I/O error or a problem obtaining disc space for a spooled devicefile; the spooler stops and the active devicefile is deleted.	Make sure that sufficient space exists for the spooled devicefile. Have the System Manager :RUN FREE2.PUB.SYS Check free space for all SPOOL class discs. =DELETE unreferenced spooled devicefiles if possible. Allow output spoolers to free up space and try input operation again. If trouble is not disc space then a disc I/O error is indicated.
SP# <i>ldn</i> /STOPPED, SPOOLEE NOT ACCEPTING	The specified <i>ldn</i> is neither :JOB nor :DATA accepting, causing the input spooler to stop (it cannot recognize further :JOB or :DATA commands).	Use the =ACCEPT [<i>JOB</i> ,] <i>ldn</i> [<i>DATA</i> ,] and =SPOOL <i>ldn</i> , STARTIN commands to restart the input spooler.

Table 7-2. System Console I/O Messages

MESSAGE	MEANING	ACTION
CAN'T INITIALLY SPOOL LDEV# <i>ldn</i>	You configured a <i>ldn</i> to be initially spooled. You did not specify a legitimate spooler (<i>ldn</i>) or you did not specify a <i>ldn</i> that was job/session accepting or data-accepting.	This indicates a system configuration error. The device specified cannot be spooled. The The =ACCEPT [JOBS,] <i>ldn</i> command can be used to allow :JOBS or :DATA, if the device is a legitimate spooler. Then start spooler with =SPOOL <i>ldn</i> , STARTIN.
FORMS: <i>formsmsg</i>	A user has requested special forms to be mounted on a line printer. The devicefile and jobnum are printed on a following device assignment request by the PIN (Process Identification Number).	Information only.
IS FILE <i>filename</i> ON LDEV# <i>ldn</i>	You are asked by the system whether the specified file is on the specified <i>ldn</i> .	You are required to =REPLY with YES or NO.
LDEV# FOR <i>filename</i> ON <i>classname</i>	You are asked by the system whether the logical device is for the specified file on the specified class.	You are required to =REPLY with a <i>ldn</i> . (If the REPLY is a 0 (zero), the device is denied.)
LDEV# <i>ldn</i> FORMS ALIGNED OK?	You are asked by the system, following the printing of the standard "forms alignment image", if the FORMS are positioned correctly on the specified <i>ldn</i> .	You are required to =REPLY with YES or NO. If the image is correctly positioned, =REPLY YES and the requesting program will continue. If the image is not correctly positioned, reposition the forms and =REPLY NO (this will cause the alignment image to be printed again and the question will be re-issued).
LDEV# <i>ldn</i> INVALID HOLLERITH COL# <i>column number</i>	The data from a defective card was not transferred. (The error applied only to a card reader).	You need to fix the card, put it back in the hopper, and ready the device.
LDEV# <i>ldn</i> NOT READY	You did not ready the indicated device.	Ready the device.
LDEV# <i>ldn</i> NO WRITE RING	You did not put on a WRITE ring.	To allow the process to continue, you will need to remove the reel, put on a write ring, remount the reel and ready the unit.
LDEV# <i>ldn</i> PAPER OUT	You ran out of paper on the indicated device.	You need to install the paper, press PAGE EJECT, and ready the device.
LDEV# <i>ldn</i> QUEUE EMPTY	You attempted an =ABORTIO and no requests were pending on the device.	Information only. Magnetic tape device may need a tape mounted.
LDEV# <i>ldn</i> TRANSFER ERROR	The data was not transferred.	You need to put the last card read back in the hopper and ready the device. (The error applies only to card readers.)

Table 7-2. System Console I/O Messages (Continued)

MESSAGE	MEANING	ACTION
MOUNT NEXT REEL ON LDEV# <i>ldn</i>	You are asked to mount the next tape for multi-reel files on magnetic tape and paper tape reader.	You need to mount the tape on the indicated device and ready the unit.
MOUNT REEL# number ON LDEV# <i>ldn</i>	You are asked to mount the next indicated tape required on the indicated device for multi-reel RESTOREs. (The REEL# is the sequence number (2 for 2nd, 3 for 3rd, etc.)	You need to mount the tape and ready the indicated device.
NEW TAPE REQD. ON LDEV# <i>ldn</i> . IS TAPE MOUNTED?	You did not mount the tape on the indicated device.	You need to put a new tape in the paper tape punch and =REPLY with a YES.
SP# <i>ldn</i> /#O <i>devicefileid</i> PREVIOUS FORMS ASSUMED	The output spooled devicefile with the indicated devicefile identification is about to be copied to the spooler <i>ldn</i> , but it was previously deferred while forms were mounted. The spooler assumes these forms are currently mounted on the indicated device (<i>ldn</i>).	If correct forms are not mounted, physically stop the printer and enter =SPOOL <i>ldn</i> , DEFER. Mount correct forms and resume output with =ALTFIL # <i>Onnn</i> ; OUTPRI=14.
SP# <i>ldn</i> /STOPPED, SPOOLEE IO ERROR	The spooler on the indicated spooler <i>ldn</i> has detected an error in attempting to read, write, or control its spooler. The spooler stops immediately: an input spooler will delete any currently ACTIVE spooled device file, while an output spooler will defer (set OUTPRI to 0) any currently ACTIVE spooled device file. This generally indicates a hardware problem, but can also occur in response to an =ABORTIO command or a system power fail. May also indicate magnetic tape is not mounted.	Try and restart the spooler: =SPOOL <i>ldn</i> ,STARTIN (input) =SPOOL <i>ldn</i> ,STARTOUT (output). If problem persists the device or the medium (cards, magnetic tape, etc.) is faulty. If device is magnetic tape, check that a tape is mounted.
SP# <i>spoolenumber</i> / IS <i>jobnum</i> ; filename ON LDEV# <i>ldn</i>	You are asked to verify that you did request <i>jobnum</i> ; filename forms on the device (<i>ldn</i>) indicated.	You need to =REPLY with a YES, which means they are requested, or NO, which means to reject the request.

Table 7-2. System Console I/O Messages (Continued)

MESSAGE	MEANING	ACTION
SP#<i>spoolenumber</i>/ LDEV# FOR: <i>jobnum</i>; filename ON <i>devclass</i> STANDARD FORMS WRONG REEL ON LDEV# <i>ldn</i>. ANOTHER AVAILABLE?	You are requested device assignment (or rejection, 0) following a forms request for spooled devicefiles. You have special forms mounted on a device, and a devicefile not requiring special forms is assigned to the device. When doing multi-reel RESTOREs, you allocated tapes in the wrong order, or you mounted a tape which was not in this tape set.	You need to =REPLY with a <i>ldn</i> to assign the correct printer (with forms to the requesting job/session). You need to reply to the message by entering a =REPLY YES if standard forms are mounted or NO if special forms are mounted and printing is to be deferred. If another reel is available, you need to =REPLY with a YES and mount the new reel on the logical device specified in the message. If not, =REPLY NO.



COLD LOAD HALTS

While cold loading the system, one of the error messages shown in table 7-3 may appear. MPE halts after issuing the message. Directory errors are further described in table 7-4. Hardware halts that may occur during cold loading are described in table 7-5.

Table 7-3. Cold Load Error Messages

MESSAGE	MEANING	ACTION
BAD DISC ADDRESS	An address greater than the available number of sectors on the disc driver. This indicates an error internal to the system.	Attempt to COLDSTART from another tape. If this fails attempt a RELOAD; if this fails use the disc diagnostic to re-format all discs and try to RELOAD again. If RELOAD is unsuccessful contact your HP Customer Engineer.
BAD FILE ADDRESS	You attempted to write outside the range of one of the system files.	You should attempt a RELOAD. If this is unsuccessful use the disc diagnostic to re-format all discs and try to RELOAD again. If this fails contact your HP Customer Engineer.
COLD LOAD TAPE READ ERROR	A tape-read error was detected during the cold load operation.	You should clean the tape heads and re-try. If this is unsuccessful, try a different tape (any tape produced by :SYSDUMP with the current version of the operating system being cold loadable).
DIRECTORY ERROR A = < A >, B = < B >	An error occurred while accessing the directory. (Refer to Table 7-4.)	
DISC SPACE ERROR	A conflict exists between the disc free-space map and the space used as defined in the directory.	You should attempt a RELOAD. If RELOAD is unsuccessful use the disc diagnostic to reformat all discs then attempt to RELOAD again. If this fails contact the HP Customer Engineer.
DISC DRIVER DOES NOT EXIST	You attempted a transfer to a disc with a type or subtype unknown to the system, which indicates a disc error has occurred on the specified logical device.	You should attempt to cold load again. If any non-standard drivers (non-HP I/O Drivers) are in the configuration they should be deleted. See <i>Operator Functions</i> , Deleting an I/O Device in Section V of the Console Operator's Guide. If this fails attempt to Cold Load from a different tape. If this fails try to RELOAD. If this fails run the disc diagnostic to format all discs and try to RELOAD again. If RELOAD is unsuccessful contact your HP Customer Engineer.
DISC { READ WRITE } ERR ON SEEK LDEV# <i>ldn</i> STATUS= %statusADDR=%address WORDS=words	A disc error has occurred on the specified <i>ldn</i> . A disc error has occurred on the specified <i>ldn</i> .	You should cold load again as you will be prompted to take action on the bad track. You should cold load again as you will be prompted to take action on the bad track.

Table 7-3. Cold Load Error Messages (Continued)

MESSAGE	MEANING	ACTION
EOF	An attempt has been made to read past the end of one of the system files.	You should attempt a RELOAD. If this fails use a different system tape and try again. If this fails contact your HP Customer Engineer.
FILE <i>name</i> .PUB.SYS NOT ON DISC	This specified file was needed but was not found in the directory.	Obtain another tape containing the system and UPDATE. If no current system tape is available, attempt UPDATE to an <i>obsolete</i> version of the system as a temporary measure; then contact your HP Customer Engineer for a current copy of the system.
IMPROPER TAPE FORMAT	The information on the tape you used for RELOAD does not agree with the format of tapes produced by the :STORE and :SYSDUMP commands.	You should locate the correct tape set and start the RELOAD operation again. If you are sure the tape set you are using was produced by :SYSDUMP go back to a previous generation of back up tapes and try again. Use a different tape drive if possible. If that fails contact your HP Customer Engineer.
IOP ERROR	An impossible status indication was returned by the tape controller, indicating a failure in the controller or the input/output processor or in INITIAL.	This message is caused by a hardware problem and is not usually recoverable. Try the cold load operation again. If successful or not, contact your HP Customer Engineer and inform him of this error. It can indicate IOP, controller, or memory errors.
MOUNT CORRECT VOLUMES OR RELOAD	On a COOLSTART, COLD-START or UPDATE, not all of the previously-defined volumes were found.	You should either mount the correct volumes and start the COOLSTART, COLD-START or UPDATE over, or you should RELOAD.
OUT OF BOOTSTRAP DISC SPACE	The 30 sectors of the system disc allocated to the bootstrap program and certain tables have been exceeded; this is an error internal to the system.	You should attempt to RELOAD the system. If this fails attempt to RELOAD from a different tape set. If you are still unsuccessful contact your HP Customer Engineer for assistance.
OUT OF CST ENTRIES	The Initiator has run out of code segment table entries for the system.	Re-build the system tape (through the :SYSDUMP command), increasing the number of entries in this table (step 4.1 of the Configurator/User Dialogue, as described in the <i>System Manager/System Supervisor Reference Manual</i>).
OUT OF DST ENTRIES	The Initiator has run out of data segment table entries for the system.	Re-build the system tape (through the :SYSDUMP command), increasing the number of entries in this table (step 4.3 of the Configurator/User Dialogue, as described in the <i>System Manager/System Supervisor Reference Manual</i>).

Table 7-3. Cold Load Error Messages (Continued)

MESSAGE	MEANING	ACTION
OUT OF MEMORY	The amount of space needed to build the main-memory resident portion of the system, and contain one segment of the Initiator program and its associated tables, has exceeded the available memory size (usually 64K).	The Initiator program requires a minimum of 64K words (128K bytes) to run. If the system has been configured incorrectly below this value during a cold load, correct the error and try again. If the tables configured have memory sizes greater than 64K words, then all resident tables must reside in bank 0. If the system tape you are using for cold load was configured in error it can be corrected by changing the memory size via the Initiator dialog. (See <i>Operator Functions</i> in Section V of the Console Operator's Guide.
OUT OF PCB ENTRIES	The Initiator has run out of process control block table entries for the system.	Re-build the system tape (through the :SYSDUMP command), increasing the number of entries in this table (step 4.4 of the Configurator/User Dialogue, as described in the <i>System Manager/System Supervisor Reference Manual</i>).
OUT OF SYSTEM DISC SPACE	The virtual memory, directory, and system file disc space required exceeds that available on the system disc. Usually, the system disc is cluttered with user files and an attempt is made to update to a new system.	The System Manager/Supervisor must create a new system tape to correct the problem. It may be necessary to use the previous system tape to bring up MPE, then delete the files on system disc.
OUT OF WSTAB ENTRIES	The Initiator has run out of working set table entries for the system.	Re-build the system tape (through the :SYSDUMP command), increasing the maximum number of concurrently running programs allowed on the system (step 9.1 of the Configurator/User Dialogue, as described in the <i>System Manager/System Supervisor Reference Manual</i>).
PREVIOUS RELOAD ABORTED; MUST RELOAD	The last cold load was a RELOAD that was aborted.	You must cold load again with a RELOAD.

Table 7-3. Cold Load Error Messages (Continued)

MESSAGE	MEANING	ACTION
PREVIOUS TAPE COLD LOAD ABORTED :MUST COLD LOAD FROM TAPE READING BLANK TAPE	The last cold load was a COLD-START or UPDATE that was aborted. There is either a defective tape or a defective tape controller. (Reported by the magnetic tape controller.)	You must cold load again with COLD-START, UPDATE or RELOAD. You should try to cold load using a known good system tape. If this fails contact your HP Customer Engineer.
SYSTEM TABLE ON DEFECTIVE TRACKS — CANNOT WARMSTART	At least one of the tables (DST Descriptor table, JMAT, IDD or ODD) which must be recovered for a WARMSTART is located on defective tracks.	You may attempt either a COOLSTART, COLDSTART, or RELOAD. You will be requested to take some action on the defective track. See <i>Operator Functions</i> , Defective Disc Track Operations in Section V of the Console Operator's Guide.
TAPE I/O CMD REJECTED	There is a defective tape controller.	If possible, you should try another tape drive. If this fails, contact your HP Customer Engineer. Possible memory problem.
TAPE PARITY ERROR	A parity error was detected while reading the magnetic tape.	You should clean the tape heads and try again. If the problem persists try another system tape, or try another tape drive if possible. If this fails contact your HP Customer Engineer.
TAPE TRANSFER ERROR	There is a defective tape controller (reported by the magnetic tape controller) or a memory parity error.	You should clean the tape heads and try again. If the problem persists contact your HP Customer Engineer.
TAPE UNIT WENT NOT READY	There is either a bad tape controller or you switched the tape unit off-line during an operation.	You should make sure the unit is selected and ready. If the HP 3000 Control Panel and Maintenance Panel are available, select the P register and display; set the SYSTEM SWITCH REGISTER to the P value plus 2 and load P register. Press the RUN/HALT switch. If the panels are not available, the error is not recoverable.
TIMING ERROR	There is a bad tape controller. (Reported by the magnetic tape controller.)	You should contact your HP Customer Engineer.
VOLUME TABLE DESTROYED; MUST RELOAD	The Volume Table maintained on the system disc has been overwritten.	You must RELOAD the system and format the disc. There may be a power/ground problem.

Table 7-4. Directory Errors

A = 1 DUPLICATE FILENAME DETECTED A = 2 NON-EXISTENT NAME AT SOME POINT IN THE SEARCH *A = 3 USER DOES NOT HAVE "SAVE" ACCESS A = 4 NO ROOM. CANNOT ACCOMMODATE ANY MORE ENTRY BLOCKS IN DIRECTORY. *A = 5 NO ROOM. MORE THAN 65K ENTRIES IN DIRECTORY. A = 6 NO ROOM. CANNOT ACCOMMODATE MORE CONTIGUOUS BLOCKS IN DIRECTORY. *A = 7 FILE SPACE LIMIT EXCEEDED	B = NOT RELEVANT B = THE NON-EXISTENT NODE IN THE FORM OF A NUMBER AS FOLLOWS: 0 = FILE 1 = GROUP 2 = ACCOUNT 3 = USER B = THE ACCESS LEVEL TO WHICH USER DOES NOT HAVE ACCESS IN THE FORM OF A NUMBER AS FOLLOWS: 1 = GROUP 2 = ACCOUNT B = PERCENTAGE OF TOTAL ENTRY SPACE ACTUALLY IN USE. B = NOT RELEVANT B = NUMBER OF CONTIGUOUS BLOCKS BEING REQUESTED. B = THE PERMANENT FILE SPACE REQUESTED HAS BEEN EXCEEDED FOR THE NODE IN THE FORM OF A NUMBER AS FOLLOWS: 1 = GROUP 2 = ACCOUNT
*Invalid error conditions for the Initiator only.	

Table 7-5. Hardware Halts List

SEGMENT NAME (OR CST NUMBER) (snum)	APPROX. DELTA-P (snum)	HALT ARGU- MENT	PROCEDURE NAME	OFFSET IN PROCEDURE	CAUSE	ACTION
1		1			Power fail	Cold load
1		2			Power on	Cold load
1		3			Stack overflow	Run diagnostic
1		4			Module interrupt	Run diagnostic
1		0			Console interrupt	Cold load
1		0			Cold load	Run diagnostic
1		0			(Unused internal interrupt)	Run diagnostic
1		0			(Unused internal interrupt)	Run diagnostic
1		11			Module error	Run diagnostic
1		12			Parity error	Run diagnostic
1		13			Stack underflow or CST/STT violation	Run diagnostic
1		14			Code segment absent before code seg- ment swapping started.	Run diagnostic
1		15			STT entry uncallable	Run diagnostic
1		0			Trace trap	Run diagnostic
1		0			Traps	Run diagnostic
DIRECTORY2 (26)	223	0	USERCLEAN	23	Bad call from DIRECSCAN.	Reload
DIRECTORY2 (26)	554	0	DIRECTORY- CLEAN	314	Bad call from DIRECSCAN.	Reload
SETUP(32)	1062	0	DIRERROR	127	Halts after printing error message*	Cold load
RESIDENT(36)	1142	0	DISCERROR	220	Halts after printing error message*	Cold load
BOOTSTRAP (37)	114	5	BOOTSTRAP	62	Bad disc cold load information table	Reload
BOOTSTRAP (37)	2616	0	MHDISK	523	Disc seek error while in bootstrap.	Run diagnostic* on system disc.
BOOTSTRAP (37)	3043	0	MHDISK	1050	Disc read/write error while in bootstrap.	Run diagnostic on system disc.
BOOTSTRAP (37)	1460	0	MH7905	1257	Disc read/write error while in bootstrap.	Run diagnostic on system disc.
BOOTSTRAP (37)	3433	0	FHDISK	222	Disc error while in bootstrap.	Run diagnostic on system disc.
BOOTSTRAP (37)	3617	4	ERRMESSAGE	7	Halts after printing error message.*	Cold Dump
*Error message printed on console. Please refer to table 7-3 in this section for a list of these messages.						

SYSTEM FAILURE MESSAGES

System failures result in system failure messages followed by a halt. These occur *only* during system initialization; MPE must be in control (up and running) to receive these messages. MPE halts by executing the HALT 15 (% 030377) instruction in the current instruction register (CIR).

System failures fall into seven categories:

1 - 99	System Internals
100 - 199	Memory Management
200 - 299	I/O System
300 - 399	Process and User Related
400 - 499	File System
500 - 599	User Interface
600 - 699	DS/3000 Internals
900 - 910	CS/3000 Intrinsic
911 - 920	DS/3000 User Related Problems
921 - 999	Miscellaneous



When a pre-defined system failure occurs, MPE outputs a message on the console, as shown in the following format:

```
****SYSTEM FAILURE # enum; STATUS snum; DELTAP pnum
```

where

<i>enum</i>	is the error number that identifies the type of error.
<i>snum</i>	is the code segment number from which the system failure was called.
<i>pnum</i>	is the program counter (delta-P) off-set.

For a discussion of any particular message, see tables 7-6 through 7-12. These tables show the system failure error numbers, the names of the procedures in which the failure was detected, the cause of the errors, and what action you should take in response to the messages. Notice, that a list of abbreviations used in these tables is shown in table 7-13.

Besides the system failures you may receive, there are other failures that may occur. These failures are detected by abnormal behavior of the system, such as:

- No response on one or more terminals.
- System halt light is lit (hardware halt).
- Negligible throughput.
- Run light not lit (software halt).

Halt Code in CIR	Procedure	Description
%000015	IOFAILURE	Non-responding I/O instruction failure on system console while processing a system failure.
%000016	WRITECHAR	System failure message cannot be printed due to incorrectly configured system console. May be due to memory destruction of I/O tables.
%000017	SUDDENDEATH	Normal halt after printing a system failure message.

Under these circumstances a COLD DUMP should be initiated.

Table 7-6. System Failure List (System Internals)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
1	REQUCOP	UCOP request list full	Enlarge the UCOP table (see your System Manager).
2	TIMER	I/O failure to clock	Hardware problem, run diagnostic if it re-occurs.
3	TIMEREQ	Timer request list full	Enlarge the table (see your System Manager).
4	PSEUDOINT	Illegal pseudo interrupt	Perform a Cold Dump.
5	RESETDB	Absolute DB = 0	Perform a Cold Dump.
6	EXCHANGEDB	Called with absolute DB	Perform a Cold Dump.
7	TICK	I/O failure to clock	Hardware problem, run diagnostic if it re-occurs.
8	TESTCRUNCH	Non-responding module in intrinsic.	Perform a Cold Dump. ②
9	TESTCRUNCH	Bounds violation, illegal address, non-responding module on ICS	Perform a Cold Dump. ②
10	TESTCRUNCH	Bounds violation in intrinsic	Perform a Cold Dump. ②
11	SYSTEMPARITY	System parity error	Hardware problem, run diagnostic if it re-occurs.
12	ADDRESSPARITY	Address parity error	Hardware problem, run diagnostic if it re-occurs.
13	DATAPARITY ①	Data parity error	Hardware problem, run diagnostic if it re-occurs.
14	MODULEINTERRUPT	Module interrupt	Hardware problem, run diagnostic if it re-occurs.
15	GHOST	Interrupt from device that is not configured or undefined internal interrupt.	Hardware problem, run diagnostic if it re-occurs.
16	DSTVIOLATION	DST violation internal interrupt	Perform a Cold Dump.
17	STACKOVERFLOW	Second overflow while interrupts off and PSDB	Perform a Cold Dump.
18	MAMDONE	Five successive preparation failures	Perform a Cold Dump.
19	AWAKE	Attempt to wake process with invalid PCB pointer	Perform a Cold Dump.
20	CLOCK	CODE > 7 (unassigned)	Perform a Cold Dump.
21	PUT' LIST	PCB PTR invalid, or unassigned pin	Perform a Cold Dump.
22	PUT' LIST	PCB PTR to invalid entry	Perform a Cold Dump.
① The following message is printed on the console before the system failure message is printed: ② Contact HP Customer Engineer. These system failures can mask other types of software/hardware problems.			PARITY ERROR B = <i>nnn</i> (bank number) A = <i>addr</i> (address)

Table 7-6. System Failure List (System Internals) (Continued)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
23	STACKOVERFLOW	I/O Failure on clock	Hardware problem, run diagnostic if it re-occurs.
24	ABORTTIMMERREQ	Timer request list index violation	Perform a Cold Dump. (see your system manager) Table may need to be enlarged. See note ③.
25	TIMERREQ	Free list invalid	Perform a Cold Dump. (see your system manager) Table may need to be enlarged. See note ③.
26	TIMERREQ	DIT or PCB pointer is zero.	Perform a Cold Dump.
27	TICK	DIT or PCB pointer is zero.	Perform a Cold Dump.
28	ABORTTIMMERREQ	An attempt was made to return a free entry to the free list.	Perform a Cold Dump.
29	TICK	DIT pointer is zero on I/O request.	Perform a Cold Dump.
30	LOG (PROCESS)	Process awakened with non-full buffer to be written	Perform a Cold Dump.
31	LOG (PROCESS)	Want to switch to other buffer but it is not empty	Perform a Cold Dump.
32	LOG	Invalid log record type number	Perform a Cold Dump.
33	LOG	Invalid log record parameter type number	Perform a Cold Dump.
34	DISPATCH H/W INSTRUCTION	DL is (numerically) greater than DB register.	Perform a Cold Dump. Probable software problem.
35	DISPATCH H/W INSTRUCTION (DISP)	Free link of PCB or DST is destroyed.	Perform a Cold Dump.
36	DISPATCH H/W INSTRUCTION (DISP)	Primary index destroyed on launch processing.	Perform a Cold Dump. See note ④.
37	DISPATCH H/W INSTRUCTION (DISP)	Primary index destroyed on absence processing.	Perform a Cold Dump. See note ④.
50	FILESYS	File system problem	Perform a Cold Dump. If this occurs every time file is accessed, delete filename from directory and recover lost disc space; otherwise perform :SYSDUMP and RELOAD.
51	FPROCTERM	Closing a CS/3000 line when CS/3000 is not on the system.	Have system manager check for misconfigured I/O devices such as RJE, etc. See note ⑤.
52	FPROCTERM	Closing a DS/3000 line when DS/3000 is not on the system.	Have system manager check for misconfigured I/O devices such as terminals or RJE. See note ⑤.

Table 7-6. System Failure List (System Internals) (Continued)

- ③ The table may also be destroyed due to system problems. If the problem occurs again after the table has been enlarged, contact your HP customer engineer.
- ④ When the system is restarted, a system failure 130 may occur within a few minutes. If this happens, do a COLDLOAD from a known good system magnetic tape.
- ⑤ User programs may also be a cause. Programmatic attempts to close a CS or DS line when these products are not on the system, also can cause these failures.

Table 7-7. System Failure List (Memory Management)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
100	GSTCONV	EN > %300 but PIN = 0 ~ illegal call	Perform a Cold Dump.
101	MAKEPRESENT	Unblocked request from source other than I/O system	Perform a Cold Dump.
102	MAKEPRESENT	Presence request for unsigned data segment	Perform a Cold Dump.
103	MAM	Unrecoverable write error on overly request	Possible hardware problem on System disc, run diagnostic if it re-occurs.
104	ADDTOWS	Working set is full — nothing can be deleted, yet a new location must be added (paradox)	Perform a Cold Dump.
105	REL [CODESEG DATASEG]	Unassigned entry	Perform a Cold Dump.
106	MAM	Error on segment read	Possible hardware problem; delete or re-assign the track on the next cold load, otherwise run diagnostic.
107	MAM	Invalid entry in make present request (i.e., size = 0)	Perform a Cold Dump.
108	MAKEPRESENT	PDISABLE converter > 1 or blocked request	Perform a Cold Dump.
109	ENTRYINDEX	EN > %300 but PIN = 0 ~ illegal call	Perform a Cold Dump.
110	MAMIO	INC odd	Perform a Cold Dump.
111	EXCHANGEDB	Index out of range	Perform a Cold Dump.
118	EXCHANGEDB	Attempt exchangedb to uninitialized entry	Perform a Cold Dump.

Table 7-7. System Failure List (Memory Management) (Continued)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
119	EXCHANGEDB	More than 15 processes in core with DB @ this data segment, but not on a list	Perform a Cold Dump.
124	RELDATESEG	Attempt made to release a system defined (permanent) DST	Perform a Cold Dump.
125	GETENTRYS	Table error - attempting to allocate allocated entry	Perform a Cold Dump.
126	RETURNENTRYS	Table error - deallocating	Perform a Cold Dump.
127	RELCODESEG/ RELDATESEG	Releasing a segment which is non-overlayable	Perform a Cold Dump.
128	ALCSTBLOCK	CST block table empty	Perform a Cold Dump.
129	STACKOVERFLOW	Stack overflow while aborting	Perform a Cold Dump.
130	BUILDQENTRY	MTAB table empty	Perform a Cold Dump. Increase MTA3 size (:SYSDUMP)
131	STACKOVERFLOW	No-mem	Perform a Cold Dump.
132	IOFREEZE	DST (other than a stack) already frozen.	Perform a Cold Dump.
133	LOCKSEG	Attempt to lock progenitor data stack	Perform a Cold Dump.
150	STKOVERFLOW	Stack frozen, core resident or locked	Perform a Cold Dump.
175	RELDATESEG/ RELCODESEG	Returning entry which is being frozen	Perform a Cold Dump.
199	DEBUG	Illegal condition in MANAGE-STOP, LOC=0	Perform a Cold Dump.

Table 7-8. System Failure List (I/O Systems)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
200	TIP	Device state (DSTATE) indicates ready, but software "paircode" is not ready.	Perform a Cold Dump.
201	TIP ⑥	I/O Failure, non-responding device on I/O Instruction (frequent cause misconfiguration)	Reconfiguration needed, otherwise it may be a hardware problem so run diagnostic.
202	RETURN TBUF	Releasing a terminal buffer link when the terminal buffer is already in the free pool.	Perform a Cold Dump.
248	ATTACHIO	Special bit set in flags word	Perform a Cold Dump.
249	CHECKINDX	Invalid TBUF, SBUF, IOQ INDEX	Perform a Cold Dump.
250	GETSYSBUF	Bad SYSBUF Index	Perform a Cold Dump.
251	RETURN SYSBUF	Bad SYSBUF Index	Perform a Cold Dump.
252	RETURN SYSBUF	Bad SYSBUF Index	Perform a Cold Dump.
260	SIDDM	Core wrap around on data transfer	Have HP customer engineer check memory jumpers on S-bus and IOP. Then, perform a Cold Dump.
261	SIDDM	Completion interrupt on a completed request.	Perform a Cold Dump. Check for peripheral hardware problem.
270		Bad Reply from PUT-MESSAGE (IOMESSPROC)	Perform a Cold Dump.
290		No IOQ Element available for MAM request processing (SIDDM)	Perform a Cold Dump.
299		Bad return from IOUNFREEZE (SIDDM)	Perform a Cold Dump.
⑥ The following message is printed on the console before the system failure message is printed: NONRESPONDING DEVICE DRT <i>nnn</i> , LDEV <i>ldn</i> (The LDEV may not always appear.)			

Table 7-9. System Failure List (Process and User Related)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
300	EXPIRE	FREELOCIN failed, RIN locked	Perform a Cold Dump.
301	EXPIRE	UCOP did not kill process	Perform a Cold Dump.
302	ABORTPROG	Main process does not have a son	Perform a Cold Dump.
303	FREELOCIN	Global RIN in local RIN list	Perform a Cold Dump.
304	OPENVDD	DB not at stack on call	Perform a Cold Dump.
305	GETCATENTRY	Disc I/O error	Possible hardware problem; delete or reassign the track on the next cold load, otherwise run diagnostic.
310	ABORT	Request to abort system process	Perform a Cold Dump.
311	ABORT	Abort while critical	Perform a Cold Dump.
312	UCOP		Perform a Cold Dump.
313	UCOP		Perform a Cold Dump.
350	ALLOCENTRY	Failed to increment XDD segment file	Perform a Cold Dump.
351	DEALLOCENTRY	Failed to decrement XDD segment file.	Perform a Cold Dump.
352	SREUNKODD	Logical device not found in ODD head entries	Perform a Cold Dump.
353	SPUTXDD	Logical device not found in XDD head entries	Perform a Cold Dump.
360	GETCLASS	Bad class table pointer	Perform a Cold Dump.
361	ALLOCATE	Invalid class table pointer	Perform a Cold Dump.
362	ALLOCATE	Bad device number in class table	Perform a Cold Dump.
363	ALLOCATE	Invalid logical device number	Perform a Cold Dump.
364	ALLOCATE	Invalid class index	Perform a Cold Dump.
365	GETCLASS	Illegal procedure parameters	Perform a Cold Dump.
366	DEALLOCATE	Negative account upon device deallocation	Perform a Cold Dump.
370	INITSPooling	Initial spooling attempt failed	Perform a Cold Dump.
371	DELETEJOB	ABORTJOB failed	Perform a Cold Dump.
372	CONSSHUTDOWN	Unable to stop spooler	Perform a Cold Dump.

Table 7-10. System Failure List (File System)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
400	DIRC	Directory I/O error	For error numbers 400 - 414, perform a Cold Dump and then reload; or avoid portion of direc- tory causing the error if it can be located.
401	DIRC	Directory I/O error	
402	DIRC	Directory I/O error	
403	DIRC	Directory I/O error	
404	DIRC	Directory I/O error	
405	DIRC	Directory I/O error	
406	DIRC	Directory I/O error	
407	DIRC	Directory I/O error	
408	DIRC	Directory I/O error	
409	DIRC	Directory I/O error	
410	DIRC	Directory I/O error	
411	DIRC	Directory I/O error	
412	DIRC	Directory I/O error	
413	DIRC	Directory I/O error	
414	DIRC	Directory I/O error	
420	DISKDEALLOC	Negative usecount	Perform a Cold Dump.
421	DISCSPACE	Negative count of freespace entries	Perform a Cold Dump.
422	DISCSPACE	Return space that is already free	Perform a Cold Dump.

Table 7-11. System Failure List (User Interface)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
500	REMJENTRY	Failure to contract DST	Perform a Cold Dump.
501	XADDJENTRY	Invalid pointer	Perform a Cold Dump.
502	CXNEWACCT	Directory cannot be purged	Perform a Cold Dump.
503	CXNEWACCT	Duplicate entry in directory	Perform a Cold Dump.
504	CXNEWGROUP	Cannot find account logged on under	Perform a Cold Dump.
	CXALTGROUP	Cannot find account logged on under	Perform a Cold Dump.
	CXNEWUSER	Cannot find account logged on under	Perform a Cold Dump.
	CXALTUSER	Cannot find account logged on under	Perform a Cold Dump.
505	CXNEWGROUP	Non-existent name in directory search	Perform a Cold Dump.
505	CXALTGROUP	Non-existent name in directory search	Perform a Cold Dump.
506	CYDIRERR	Catastrophic directory error	Reload
507	CNDINTRY	Unable to get Jcut Index	Perform a Cold Dump.
508	SHOWJOB	Invalid job type	Perform a Cold Dump.
509	COMMANDINTERP	Error returned by command interpreter log table.	Perform a Cold Dump.
520	CXSTORE	X expansion call failed	Perform a Cold Dump.
522	IRESTORE	Spec=2 and PROOT-2	Perform a Cold Dump.
523	FRESTORE	FSF failed - File skipped forward to tape mark	Perform a Cold Dump.
524	FRESTORE	Discspace error: NSECT no good	Perform a Cold Dump.
525	FRESTORE	Discspace error: Table overflow	Perform a Cold Dump. Reload to compact the discs.
526	FRESTORE	Disc alloc error (1)	Perform a Cold Dump.
527	FRESTORE	Disc alloc error (5)	Perform a Cold Dump.
528	FRESTORE	XDISKSPACE error (2)	Perform a Cold Dump.
529	FRESTORE	XDISKSPACE ERROR (3)	Perform a Cold Dump.
530	ADJUSTFPTR	File level < > 0	Perform a Cold Dump.
531	FSTORE	Sector count > 0D	Perform a Cold Dump.
532	FRESTORE	Deallocation failed	Perform a Cold Dump.

Table 7-12. System Failure List (Miscellaneous)

ERROR NUMBER	PROCEDURE NAME	CAUSE	ACTION
900	CSINTRINSIC		Perform a Cold Dump.
901	CSINTRINSIC		Perform a Cold Dump.
902	CSINTRINSIC		Perform a Cold Dump.
903	CSINTRINSIC		Perform a Cold Dump.
904	CSINTRINSIC		Perform a Cold Dump.
905	CSINTRINSIC		Perform a Cold Dump.
906	CSINTRINSIC		Perform a Cold Dump.
907	CSINTRINSIC		Perform a Cold Dump.
908	CSINTRINSIC		Perform a Cold Dump.
909	CSINTRINSIC		Perform a Cold Dump.
910	CSINTRINSIC		Perform a Cold Dump.

Table 7-13. Operating System Hardware Halts

HALT CODE (OCTAL)	PROCEDURE NAME	MEANING	ACTION
15	IOFAILURE	I/O instruction failure on system console.	
16	WRITECHAR	System console is not initialized and cannot be used to print system failure message.	
17	SUDDENDEATH	Halt after printing system failure message.	

Table 7-14. Abbreviations

ABBREVIATION	DESCRIPTION
CIR	Current instruction register
CPCB	Current process control block
CST	Code segment table
DB	Data Base
DIT	Device information table
DST	Data segment table
EN	Entry
FSF	File skipped forward
H/W	Hardware or firmware abbreviation
ICS	Interrupt control stack
IOQ	I/O Queue
LDEV	Logical Device
MTAB	Memory Table
PCB	Process control block
PIN	Process identification number
PSDB	Pseudo disable
RIN	Resource identification number
SBUF	System buffer
TBUF	Terminal buffer

FILE INFORMATION DISPLAY

APPENDIX

A

Certain file input/output errors result in the output of a file information display. For files not yet opened, or for which the FOPEN intrinsic failed, this display appears as in the example below.

```
  +-F-I-L-E---I-N-F-O-R-M-A-T-I-O-N---D-I-S-P-L-A-Y+
① →!  FILE NUMBER -1      IS UNDEFINED.                !
② →!  ERROR NUMBER: 52    RESIDUE: 0      (WORDS)      !
③ →!  BLOCK NUMBER: 0     NUMREC: 0                          !
  +-----+-----+-----+-----+-----+-----+-----+
```

In this display, the lines indicated show the following information.

Line	Content
1	A message stating why the file could not be opened. If the file number is zero, it is assumed that FOPEN failed and this line is not displayed. Otherwise, the file number is an invalid one.
2	The appropriate error number is displayed (relating to table 2-7 in this case.) The error number is always the last FOPEN error that occurred. Residue is always zero.
3	Block number and numrec are always 0 in the short FID (File Information Display) format.

For files that were open when a CCG (end-of-file error) or CCL (irrecoverable file error) condition code was returned, the file information display appears as shown in this example:

```

      +-F-I-L-E---I-N-F-O-R-M-A-T-I-O-N---D-I-S-P-L-A-Y+
  ①→ ! FILE NAME IS IN.PUB.TECHPUBS !
  ②→ ! FOPTIONS: NEW,A,*FORMAL*,F,N,FEQ !
  ③→ ! AOPTIONS: INPUT,SREC,NOLOCK,DEF,BUFFER !
  ④→ ! DEVICE TYPE: 0 DEVICE SUBTYPE: 3 !
  ⑤→ ! LDEV: 17 DRT: 12 UNIT: 1 !
  ⑥→ ! RECORD SIZE: 256 BLOCK SIZE: 256 (BYTES) !
  ⑦→ ! EXTENT SIZE: 128 MAX EXTENTS: 8 !
  ⑧→ ! RECPTR: 0 RECLIMIT: 1023 !
  ⑨→ ! LOGCOUNT: 0 PHYSCOUNT: 0 !
  ⑩→ ! EOF AT: 0 LABEL ADDR: %02100060123 !
  ⑪→ ! FILE CODE: 0 ID IS MAC ULABELS: 0 !
  ⑫→ ! PHYSICAL STATUS: 1111000000000001 !
  ⑬→ ! ERROR NUMBER: 40 RESIDUE: 0 !
  ⑭→ ! BLOCK NUMBER: 0 NUMREC: 1 !
      +-----+

```

The lines indicated show the following information:

Line	Content
1	The <i>file name</i> : in this case, the name is IN.PUB.TECHPUBS.
2	The <i>foptions</i> in effect, including: Domain: NEW = New file (as in this case). SYS = System file domain. JOB = Job temporary file domain. ALL = System <i>and</i> job temporary file domain. Type: A = ASCII File (as in this case). B = Binary File. Default File Designator: *FORMAL* = Actual file designator is same as formal file designator.

Line	Contents
2 (Cont.)	Record F = Fixed length. Format: V = Variable length. U = Undefined length (as in this case). ? = Unknown format. Carriage N = None (as in this case). Control: C = Carriage control character expected. File Equation FEQ = :FILE allowed (as in this case). Option: DEQ = :FILE not allowed.
3	The <i>aoptions</i> in effect, including: Access Type: INPUT = Read access (as in this case). OUTPUT = Write access. OUTKEEP = Write-only access, without deleting. APPEND = Append access. IN/OUT = Input and output access. UPDATE = Update access. Multi-record SREC = Single record access (as in this case). Option: MREC = Multi-record access. Dynamic NOLOCK = No locking permitted (as in this case). Locking LOCK = Locking permitted. Option: Exclusive DEF = Default specification (as in this case). Access EXC = Exclusive access allowed. Option: SEA = Semi-exclusive access allowed. SHR = Sharable file. Buffering: BUFFER = Automatic buffering. NOBUFF = Inhibit buffering (as in this case).
4,5	The <i>Device Type</i>, <i>Device Subtype</i>, <i>LDEV</i> (<i>Logical Device Number</i>), <i>DRT</i> (<i>Device Reference Table Entry Number</i>) and <i>Unit</i> of the device on which the file resides. (These are 0, 3, 17, 12, and 1 respectively, in this case.)
6	The <i>record size</i> and <i>block size</i> of the offending record, in <i>bytes</i>. (In this case, these are both specified as 256 bytes.)
7	The <i>extent size</i> (of the current extent) and the <i>max extents</i> (maximum number of extents) allowed this file.
8	The <i>recptr</i> (current record pointer) and <i>reclimit</i> (limit on number of records in the file).

Line	Contents
9	The <i>logcount</i> (present count of logical records) and <i>physcount</i> (present count of physical records) in the file.
10	The <i>EOF at</i> (location of the current end-of-file) and the <i>label addr</i> (location of the header label of the file).
11	The <i>file code, id</i> (name of creating user), and <i>ulabels</i> (number of user-created labels) for the file.
12	The <i>physical status</i> of the file.
13	The <i>error number</i> and <i>residue</i> , as described under the abbreviated file information display format, above.
14	The <i>block number</i> and <i>numrec</i> , as described under the abbreviated file information display format, above.

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2	FLOATING POINT OVERFLOW	MPE Intrinsic	2-4
2	FREAD	MPE Intrinsic	2-5
2	IF KEYCOMPARE IS NOT SPECIFIED, KEYS AND NUMKEYS M	SORTLIB	5-4
2	ILLEGAL CAPABILITY	MPE Intrinsic	2-6
2	ILLEGAL CAPABILITY	MPE Intrinsic	2-7
2	ILLEGAL CHARACTER IGNORED	COBOL	3-4
2	ILLEGAL INPUT FILE SPECIFICATION	BASIC Interpreter	3-22
2	ILLEGAL NUMINPUTFILES	MERGELIB	5-6
2	INVALID COMMAND	BASIC Compiler	3-19
2	INVALID OPTION	EDIT	5-2
2	LIST FILE IS READ-ONLY	MERGE	5-7
2	LIST FILE IS READ-ONLY	SORT	5-5
2	MULTIPLE DEFINITION OF SAME COM	BASIC Interpreter	3-24
2	SEQUENCE ERROR	RPG	3-6
2	STRING ARRAY SUBSCRIPT OUT OF BOUNDS	BASIC Interpreter	3-25
2	SUBSTRING DESIGNATOR EXCEEDS LOGICAL LENGTH PLUS 0	BASIC Compiler	3-21
2	SUCCESSFUL COMPLETION, DUPLICATE KEY	COBOL	3-4.1
2	UNIDENTIFIED RECORD, FILENAME=xxxx, RECORD NUMBER=	RPG	3-16
3		PATCH	5-14
3		EMULATOR	6-5
3		CONSOLE	7-6
3	AVAILABLE DIRECTORY SPACE EXHAUSTED	Segmenter	5-1
3	DATAN2: ARGUMENTS ZERO	Compiler Library	5-16
3	FAILURE ON FOPEN OF TEXT FILE	MERGE	5-7
3	FAILURE ON FOPEN OF TEXT FILE	SORT	5-5
3	FIELD A MUST BE BLANK	COBOL	3-4
3	FLOATING POINT UNDERFLOW	MPE Intrinsic	2-4
3	FWRITE	MPE Intrinsic	2-5
3	ILLEGAL COMMAND FILE SPECIFICATION	BASIC Interpreter	3-22
3	INVALID CHARACTER	BASIC Compiler	3-19
3	MATCHING RECORD SEQUENCE ERROR, FILENAME=xxxx, REC	RPG	3-16
3	MISSING EQUAL SIGN	BASIC Interpreter	3-23
3	MISSING PARAMETER	EDIT	5-2
3	MISSING SUBSCRIPT SPECIFICATION IN FIRST OCCUPRENC	BASIC Interpreter	3-24

CODE	MESSAGE	SYSTEM	TABLE
3	NO INPUTFILES PARAMETER SPECIFIED	MERGENLIB	5-6
3	NO RECLN PARAMETER SPECIFIED OR <=0	SORTLIB	5-4
3	NON-CONTIGUOUS STRING	BASIC Interpreter	3-25
3	NON-EXISTENT TYPE CARD	RPG	3-6
3	OMITTED PARAMETER	MPE Intrinsic	2-6
3	SYMBOLIC NAME EXCEEDS 15 CHARACTERS	FORTTRAN	3-3
3	SYNTAX ERROR: IN SUBSET OPTION	FCOPY	5-3
3	TOO MANY FILES	SPOOK	5-18
3	WRONG (JOB/SESSION) MODE	MPE Commands	2-1
4		PATCH	5-14
4		EMULATOR	6-5
4		CONSOLE	7-6
4	AVAILABLE INFO SPACE EXHAUSTED	Segmenter	5-1
4	CARD TYPE OUT OF ORDER	RPG	3-6
4	COMMAND FILE NOT TYPE ASCII	BASIC Interpreter	3-22
4	DATAN2: UNDERFLOW	Compiler Library	5-16
4	DESTINATION SUBSTRING EXCEEDS PHYSICAL SIZE	BASIC Compiler	3-21
4	DUPLICATE DECLARATION	BASIC Interpreter	3-24
4	EXPECTED A COMMA	FORTTRAN	3-3
4	FILE NOT ACCESSIBLE (errorcode)	EDIT	5-2
4	FUPDATE	MPE Intrinsic	2-5
4	ILLEGAL OPERATOR	BASIC Interpreter	3-23
4	ILLEGAL STRING	BASIC Interpreter	3-25
4	INCORRECT S REGISTER	MPE Intrinsic	2-6
4	INPUT SEQUENCE ERROR, FILENAME=xxxx, RECORD NUMBER	RPG	3-16
4	INSUFFICIENT CAPABILITY	MPE Commands	2-1
4	INSUFFICIENT CAPABILITY	SPOOK	5-18
4	INTEGER DIVIDE BY ZERO	MPE Intrinsic	2-4
4	KEYCOMPARE MAY NOT BE SPECIFIED IF OUTPUTOPTION>1	SORTLIB	5-4
4	NEITHER OUTPUTFILE NOR POSTPROCESSOR PARAMETER SPE	MERGENLIB	5-6
4	SYNTAX ERROR: IN TITLE OPTION	FCOPY	5-3
4	TEXT FILE IS WRITE-ONLY	MERGE	5-7
4	TEXT FILE IS WRITE-ONLY	SORT	5-5
4	TOO MANY CHARACTERS	COBOL	3-4
4	USL FILE PREVIOUSLY INITIALIZED	BASIC Compiler	3-19
5		PATCH	5-14
5		EMULATOR	6-5
5		CONSOLE	7-6
5	COM APPEARS AFTER OTHER DECLARATION	BASIC Interpreter	3-24
5	EXP: OVERFLOW	Compiler Library	5-16
5	EXTRANEIOUS COMMA	FORTTRAN	3-3
5	FILE NOT TYPE ASCII	EDIT	5-2
5	FIRST SUBSTRING DESIGNATOR <=ZERO	BASIC Compiler	3-21
5	FLOATING POINT DIVIDE BY ZERO	MPE Intrinsic	2-4
5	FREAD ERROR ON SCRATCHFILE	SORTLIB	5-4
5	FSPACE	MPE Intrinsic	2-5
5	IF KEYCOMPARE IS SPECIFIED, KEYS AND NUMKEYS MUST	MERGENLIB	5-6
5	ILLEGAL COMMAND	MERGE	5-7
5	ILLEGAL COMMAND	SORT	5-5
5	ILLEGAL SEPARATOR	BASIC Interpreter	3-23
5	INDEX INVALID, LINE NUMBER=nnn,INDEX=nnn	RPG	3-16
5	INTEGER OVERFLOW	BASIC Interpreter	3-25
5	PARAMETER ADDRESS VIOLATION	MPE Intrinsic	2-6
5	SHOULD BE HYPHEN OR ASTERISK	COBOL	3-4
5	SYNTAX ERROR: IN IGNERR OPTION	FCOPY	5-3
5	TEXT FILE RECORD TOO SHORT	RPG	3-6
5	TOO MANY PARAMETERS	MPE Commands	2-1
5	USL FILE NOT DESIGNATED	Segmenter	5-1
5	USLINIT INVALID AFTER \$COMPILE COMMAND	BASIC Compiler	3-19
6		PATCH	5-14
6		EMULATOR	6-4
6		EMULATOR	6-5
6		CONSOLE	7-6
6	ARRAY SUBSCRIPT OUT OF BOUNDS	BASIC Interpreter	3-25

CODE	MESSAGE	SYSTEM	TABLE
6	CHARACTER ADJUSTMENT RUNS OFF OF FILE	EDIT	5-2
6	DEXP: OVERFLOW	Compiler Library	5-16
6	ENTRY OR HEADER-SPACE OVERFLOW IN USL FILE	RPG	3-6
6	FPOINT	MPE Intrinsics	2-5
6	IF KEYCOMPARE IS NOT SPECIFIED, KEYS AND NUMKEYS M	MERGELIB	5-6
6	ILLEGAL OUTPUTOPTION	SORTLIB	5-4
6	ILLEGAL USL FILE SPECIFICATION	Segmenter	5-1
6	INSUFFICIENT PARAMETERS	MPE Commands	2-1
6	INVALID NUMBER OF LINES	BASIC Compiler	3-19
6	MISSING 'OF'	BASIC Interpreter	3-23
6	MISSING SPACE	COBOL	3-4
6	MORE THAN 909 VARIABLES AND USER FUNCTIONS	BASIC Interpreter	3-24
6	NEGATIVE SQUARE ROOT, LINE NUMBER=nnn	RPG	3-16
6	NO KEYS WERE SPECIFIED	MERGE	5-7
6	NO KEYS WERE SPECIFIED	SORT	5-5
6	PARAMETER END ADDRESS VIOLATION	MPE Intrinsics	2-6
6	PRIVILEGED INSTRUCTION	MPE Intrinsics	2-4
6	SYNTAX ERROR: IN VERIFY OPTION	FCOPY	5-3
6	TRANSFER OUT OF USER FUNCTION	BASIC Interpreter	3-22
6	UNABLE TO FIND CHAIN/INVOKE PROCEDURE=name	BASIC Compiler	3-21
7		EMULATOR	6-4
7		EMULATOR	6-5
7		CONSOLE	7-6
7	'FNEND' WITHOUT 'DEF'	BASIC Interpreter	3-24
7	ALOG: ARGUMENT NOT POSITIVE	Compiler Library	5-16
7	CODE GENERATION ERROR	RPG	3-6
7	EXPECTED A QUOTE	BASIC Compiler	3-19
7	FILE NAME CANNOT EXCEED 35 CHARACTERS	SORT	5-5
7	FILENAME CANNOT EXCEED 35 CHARACTERS	MERGE	5-7
7	FREADDIR	MPE Intrinsics	2-5
7	ILLEGAL COMMAND	COBOL	3-4
7	ILLEGAL INSTRUCTION	MPE Intrinsics	2-4
7	ILLEGAL INTEGER	BASIC Interpreter	3-22
7	ILLEGAL NUMKEYS	MERGELIB	5-6
7	ILLEGAL PARAMETER	MPE Intrinsics	2-6
7	ILLEGAL VARIABLE NAME	BASIC Interpreter	3-23
7	INVALID CHAIN/INVOKE PROCEDURE NAME CHAIN/INVOKE	BASIC Compiler	3-21
7	MISSING COLON	MPE Commands	2-1
7	READ ERROR ON TEXT FILE (errorcode)	EDIT	5-2
7	SCRATCH FILE CANNOT BE OPENED	SORTLIB	5-4
7	SUBSCRIPT <=0	BASIC Interpreter	3-25
7	SYNTAX ERROR: IN SKIPEOF OPTION	FCOPY	5-3
7	TABLE/ARRAY SEQUENCE BAD DATA ERROR, OVERFULL FILE	RPG	3-16
7	UNABLE TO OPEN USL FILE	Segmenter	5-1
7	UNEXPECTED CHARACTER	FORTRAN	3-3
8		EMULATOR	6-4
8		EMULATOR	6-5
8		CONSOLE	7-6
8	ADJUSTMENT RUNS OFF OF FILE	EDIT	5-2
8	DLOG: ARGUMENT NOT POSITIVE	Compiler Library	5-16
8	EXTENDED PRECISION OVERFLOW	MPE Intrinsics	2-4
8	FAILURE ON FGETINFO (INPUTFILE)	SORTLIB	5-4
8	FCLOSE	MPE Intrinsics	2-5
8	ILLEGAL PARAMETER VALUE	MPE Intrinsics	2-7
8	ILLEGAL STATEMENT NUMBER	BASIC Interpreter	3-22
8	ILLEGITIMATE ACCESS	MPE Commands	2-1
8	IMPROPER NUMERIC LITERAL	COBOL	3-4
8	INCOMPATIBLE ARRAY DIMENSIONALITY	BASIC Interpreter	3-24
8	INTEGER OVERFLOW	BASIC Compiler	3-21
8	INVALID USL FILE	Segmenter	5-1
8	KEYFIELD IS NOT WITHIN RECORD LENGTH OF EACH FILE	MERGELIB	5-6
8	MISSING COMMA	MERGE	5-7
8	MISSING COMMA	SORT	5-5
8	MISSING LEFT PARENTHESIS	BASIC Interpreter	3-23

CODE	MESSAGE	SYSTEM	TABLE
8	PARAMETER VALUE INVALID	MPE Intrinsics	2-6
8	RECORD NOT FOUND, FILENAME=XXX, STATUS=XXX	RPG	3-16
8	START INVALID UNDER SUBPROGRAM MODE	BASIC Compiler	3-19
8	SYNTAX ERROR: IN COMPARE OPTION	FCOPY	5-3
8	UNDEFINED VALUE	BASIC Interpreter	3-25
8	UNEXPECTED '-'	FORTRAN	3-3
8	USL GENERATION ERROR	RPG	3-6
9		EMULATOR	6-4
9		EMULATOR	6-5
9		CONSOLE	7-6
9	CARS: OVERFLOW	Compiler Library	5-16
9	EXPECTED PROGRAM NAME	BASIC Compiler	3-19
9	EXTENDED PRECISION UNDERFLOW	MPE Intrinsics	2-4
9	ILLEGAL ASCENDING/DSCENDING CODE	MERGENLIB	5-6
9	ILLEGAL NUMBER OF RECORDS	SORT	5-5
9	ILLEGAL NUMKEYS	SORTLIB	5-4
9	ILLEGAL PARAMETER	BASIC Interpreter	3-22
9	INCORRECT Q REGISTER	MPE Intrinsics	2-6
9	INTEGER DIVIDE BY ZERO	BASIC Compiler	3-21
9	INVALID SUBSTRING DESIGNATOR - INVALID LENGTH	BASIC Interpreter	3-25
9	MISSING PARAMETER	MERGE	5-7
9	MISSING QUOTATION MARK	COBOL	3-4
9	MISSING RIGHT PARENTHESIS	BASIC Interpreter	3-23
9	RPG CODE GENERATION ERROR	RPG	3-6
9	SPECIAL FILE ERROR, FILENAME=xxxx, STATUS=xxxx	RPG	3-16
9	SYNTAX ERROR IN TEXT POSITION EXPRESSION	EDIT	5-2
9	SYNTAX ERROR: IN NEW OPTION	FCOPY	5-3
9	UNABLE TO CLOSE USL FILE	Segmenter	5-1
9	UNACCEPTABLE DEVICE	MPE Commands	2-1
9	UNDEFINED ARRAY DIMENSIONALITY	BASIC Interpreter	3-24
9	UNEXPECTED COMMA	FORTRAN	3-3
9n	FILE SYSTEM ERROR	COBOL	3-4.1
10		IMAGE	4-6
10		EMULATOR	6-4
10		EMULATOR	6-5
10		CONSOLE	7-6
10	ABSOLUTE COLUMN POSITION OUT OF RANGE	EDIT	5-2
10	AT END	COBOL	3-4.1
10	BEGINNING OF FILE	RPG	3-17
10	EXPECTED A <	BASIC Compiler	3-19
10	EXTENDED PRECISION DIVIDE BY ZERO	MPE Intrinsics	2-4
10	FCHECK	MPE Intrinsics	2-5
10	ILLEGAL KEY CODE	MERGENLIB	5-6
10	ILLEGAL NUMBER OF RECORDS	MERGE	5-7
10	INSUFFICIENT RESOURCES	MPE Commands	2-1
10	KEYFIELD IS NOT WITHIN SPECIFIED RECORD LENGTH	SORTLIB	5-4
10	LOG OF NEGATIVE NUMBER	BASIC Compiler	3-21
10	MISSING COMMA	BASIC Interpreter	3-23
10	MISSING PARAMETER	BASIC Interpreter	3-22
10	NUMBER OF RECORDS TOO LARGE OR TOO SMALL	SORT	5-5
10	RDEXIT ERROR, FILENAME=xxxx, STATUS=xxxx	RPG	3-16
10	SQRT: ARGUMENT NEGATIVE	Compiler Library	5-16
10	STATE-STACK OVERFLOW	COBOL	3-4
10	STRING >255 CHARACTERS	BASIC Interpreter	3-25
10	SYMBOL TABLE AREA (DB TO DL) OVERFLOW	RPG	3-6
10	SYNTAX ERROR: IN HEX OPTION	FCOPY	5-3
10	UNABLE TO CLOSE SL FILE	Segmenter	5-1
10	UNDEFINED USER FUNCTION	BASIC Interpreter	3-24
10	UNEXPECTED ')'	FORTRAN	3-3
11		IMAGE	4-6
11		EMULATOR	6-4
11		EMULATOR	6-5
11		CONSOLE	7-6
11	'END' MUST BE LAST	BASIC Interpreter	3-23



CODE	MESSAGE	SYSTEM	TABLE
11	ARITHMETIC OVERFLOW, LINE NUMBER=nnn, VALUE=nnn	RPG	3-16
11	AVAILABLE FILE SPACE EXHAUSTED	Segmenter	5-1
11	COMMAND NOT YET IMPLEMENTED	MPE Commands	2-1
11	DATA OF WRONG TYPE	BASIC Interpreter	3-25
11	DECIMAL OVERFLOW	MPE Intrinsics	2-4
11	DSQRT: ARGUMENT NEGATIVE	Compiler Library	5-16
11	END OF FILE	RPG	3-17
11	EXPECTED A &	BASIC Compiler	3-19
11	EXPECTED AN INTEGER	FORTRAN	3-3
11	FAILURE ON FGETINFO (INPUTFILE)	MERGLIB	5-6
11	FGETINFO	MPE Intrinsics	2-5
11	FILE IS UNAVAILABLE FOR THIS USE	BASIC Interpreter	3-22
11	GRAMMATICAL ERROR! EXPECTING ONE OF THE SYMBOLS BE	COBOL	3-4
11	ILLEGAL ASCENDING/DSCENDING CODE	SORTLIB	5-4
11	ILLEGAL RECORD SIZE	SORT	5-5
11	NUMBER OF RECORDS TOO LARGE OR TOO SMALL	MERGE	5-7
11	POSITION NOT FOUND	EDIT	5-2
11	SQR OF NEGATIVE NUMBER	BASIC Compiler	3-21
11	SYNTAX ERROR: IN EBCDICOUT OPTION	FCOPY	5-3
11	USER FUNCTION PARAMETER OF WRONG TYPE	BASIC Interpreter	3-24
12		IMAGE	4-6
12		EMULATOR	6-4
12		EMULATOR	6-5
12		CONSOLE	7-6
12	DIRECTED BEGINNING OF FILE	RPG	3-17
12	DIVIDE BY ZERO, LINE NUMBER=nnn	RPG	3-16
12	ENTRY POINT ALREADY DEFINED	Segmenter	5-1
12	EXPECTED A '.'	FORTRAN	3-3
12	EXPECTED A =	BASIC Compiler	3-19
12	FREAD ERROR ON INPUT FILE	MERGLIB	5-6
12	FREADSEEK	MPE Intrinsics	2-5
12	ILLEGAL FILE OR PROGRAM NAME	BASIC Interpreter	3-22
12	ILLEGAL ITEM IN DATA STATEMENT	BASIC Interpreter	3-23
12	ILLEGAL KEY CODE	SORTLIB	5-4
12	INVALID ASCII DIGIT	MPE Intrinsics	2-4
12	NOT ALLOWED PROGRAMMATICALLY	MPE Commands	2-1
12	OUT OF DATA	BASIC Interpreter	3-25
12	OVERSIZED LINE (linenumber)	EDIT	5-2
12	RECORD SIZE TOO LARGE OR TOO SMALL	SORT	5-5
12	SYNTAX ERROR: IN CHAR OPTION	FCOPY	5-3
12	TAN: OVERFLOW	Compiler Library	5-16
12	TOO MANY PARAMETERS	MERGE	5-7
12	UNEXPECTED DIVISION END	COBOL	3-4
12	USER FUNCTION HAS TOO MANY PARAMETERS	BASIC Interpreter	3-24
12	ZERO TO ZERO POWER	BASIC Compiler	3-21
13		IMAGE	4-6
13		EMULATOR	6-4
13		EMULATOR	6-5
13		CONSOLE	7-6
13	DIRECTED END OF FILE	RPG	3-17
13	DTAN: OVERFLOW	Compiler Library	5-16
13	EXPECTED A 'P'	FORTRAN	3-3
13	EXTRA CHARACTER	BASIC Interpreter	3-22
13	EXTRA CHARACTERS	BASIC Interpreter	3-23
13	FCONTROL	MPE Intrinsics	2-5
13	FWRITE ERROR ON OUTPUT FILE	MERGLIB	5-6
13	ILLEGAL REPLICATOR IN IMAGE	BASIC Interpreter	3-25
13	INSUFFICIENT SPACE	MERGE	5-7
13	INSUFFICIENT STACK SPACE	SORTLIB	5-4
13	INVALID DECIMAL DIGIT	MPE Intrinsics	2-4
13	INVALID NUMERICAL DATA, LINE NUMBER=[nnn, VALUE=nn	RPG	3-16
13	INVALID SUBPARAMETER	BASIC Compiler	3-19
13	SEGMENT CONTAINS PROGRAM UNITS OTHER THAN PROCEDUR	Segmenter	5-1
13	SPACE OVERFLOW	COBOL	3-4

CODE	MESSAGE	SYSTEM	TABLE
13	SYNTAX ERROR: IN OCTAL OPTION	FCOPY	5-3
13	TIMEOUT ERROR	EDIT	5-2
13	TOO MANY PARAMETERS	SORT	5-5
13	USER FUNCTION HAS TOO FEW PARAMETERS	BASIC Interpreter	3-24
13	VDD FULL	MPE Commands	2-1
13	ZERO TO INTEGER POWER<=ZERO	BASIC Compiler	3-21
14		IMAGE	4-6
14		EMULATOR	6-4
14		EMULATOR	6-5
14		CONSOLE	7-6
14	BEGINNING OF CHAIN	RPG	3-17
14	BINARY CONVERSION OVERFLOW, LINE NUMBER=nnn, VALUE	RPG	3-16
14	FAILURE OF FOPEN OF INPUT FILE	MERGE	5-7
14	FAILURE ON FOPEN OF INPUT FILE	SORT	5-5
14	FSETMODE	MPE Intrinsics	2-5
14	ILLEGAL CHARACTER IN IMAGE	BASIC Interpreter	3-25
14	ILLEGAL COM NUMBER	BASIC Interpreter	3-23
14	IMPROPER USE OF RESERVED SYMBOL	COBOL	3-4
14	INPUT RECORD DOES NOT INCLUDE ALL KEY FIELDS	MERGLIB	5-6
14	INPUT RECORD DOES NOT INCLUDE KEY FIELDS	SORTLIB	5-4
14	INVALID LINE NUMBER	EDIT	5-2
14	INVALID WORD COUNT	MPE Intrinsics	2-4
14	JOB OVERLOAD	MPE Commands	2-1
14	NAME TOO LONG - TRUNCATED	BASIC Interpreter	3-22
14	NEGATIVE NUMBER TO REAL POWER	BASIC Compiler	3-21
14	NON-ARRAY PARAMETER IN 'ROW' OR 'COL'	BASIC Interpreter	3-24
14	SEGMENT REQUIRES GLOBAL STORAGE	Segmenter	5-1
14	SUBPARAMETER NAME TOO LONG, TRUNCATED TO 15 CHARACT	BASIC Compiler	3-19
14	SYNTAX ERROR: IN UPSHIFT OPTION	FCOPY	5-3
14	UNEXPECTED 'P'	FORTRAN	3-3
15		IMAGE	4-6
15		EMULATOR	6-4
15		EMULATOR	6-5
15		CONSOLE	7-6
15		CONSOLE	7-13
15	\$CONTROL PARAMETER EXPECTED	BASIC Compiler	3-19
15	'COM(0)' ILLEGAL	BASIC Interpreter	3-23
15	COMMAND WILL NOT REPLACE OR INTERLEAVE LINES	EDIT	5-2
15	END OF CHAIN	RPG	3-17
15	END OF COMMAND FILE	BASIC Interpreter	3-22
15	FLOCK	MPE Intrinsics	2-5
15	IF KEYCOMPARE IS SPECIFIED, KEYONLY MAY NOT BE	MERGLIB	5-6
15	ILLEGAL POSITION	MERGE	5-7
15	ILLEGAL SPECIFICATION IN IMAGE	BASIC Interpreter	3-25
15	IMPROPER LEVEL NUMBER	COBOL	3-4
15	INDICATOR H X IS ON (H0-H9)	RPG	3-16
15	INPUT RECORD IS TOO LONG	SORTLIB	5-4
15	INVALID DECIMAL OPERAND LENGTH	MPE Intrinsics	2-4
15	MISSING NUM OR KEY	SORT	5-5
15	NESTING EXCEEDS 5 LEVELS	FORTRAN	3-3
15	SEGMENT ALREADY DEFINED	Segmenter	5-1
15	STRING EXCEEDS 255 CHARACTERS	BASIC Compiler	3-21
15	SUBSYSTEM NOT FOUND	MPE Commands	2-1
15	SYNTAX ERROR: IN BCDICIN OPTION	FCOPY	5-3
15	TRANSFER TO NON-EXISTENT STATEMENT	BASIC Interpreter	3-24
16		IMAGE	4-6
16		CONSOLE	7-6
16		CONSOLE	7-13
16	DATA SET FULL	RPG	3-17
16	DECIMAL DIVIDE BY ZERO	MPE Intrinsics	2-4
16	DISC I/O ERROR	MPE Commands	2-1
16	ERROR ATTEMPTING COMMAND INPUT	BASIC Interpreter	3-22
16	EXTRANEIOUS SOURCE	FORTRAN	3-3
16	FUNLOCK	MPE Intrinsics	2-5

CODE	MESSAGE	SYSTEM	TABLE
16	ILLEGAL PARAMETER	BASIC Interpreter	3-23
16	ILLEGAL POSITION	SORT	5-5
16	INSUFFICIENT STACK SPACE	MERGETLIB	5-6
16	INVALID SUBSTRING DESIGNATOR	BASIC Compiler	3-21
16	MISSING QUOTE IN IMAGE	BASIC Interpreter	3-25
16	NON-STANDARD LEVEL NUMBER	COBOL	3-4
16	POSITION OUT OF RANGE	MERGE	5-7
16	READ EOF, FILENAME=xxxx	RPG	3-16
16	SL FILE NOT DESIGNATED	Segmenter	5-1
16	SYNTAX ERROR: IN NORECNUM OPTION	FCOPY	5-3
16	TOO MANY INPUT RECORDS	SORTLIB	5-4
16	TRANSFER OUT OF USER FUNCTION	BASIC Interpreter	3-24
16	USL FILE INITIALIZED DUE TO BAD CHARACTERISTICS	BASIC Compiler	3-19
16	WARNING - LINE <i>linenumber</i> EXTENDS PAST <i>column</i>	EDIT	5-2
17		IMAGE	4-6
17		EMULATOR	6-4
17		CONSOLE	7-6
17		CONSOLE	7-13
17	'&' MUST BE LAST NONBLANK CHARACTER	BASIC Interpreter	3-22
17	CLAUSE DUPLICATION	COBOL	3-4
17	FAILURE TO "CREATE" BASIC.PUB.SYS	BASIC Compiler	3-21
17	FRENAME	MPE Intrinsics	2-5
17	FWRITE ERROR ON SCRATCHFILE	SORTLIB	5-4
17	ILLEGAL SL FILE SPECIFICATION	Segmenter	5-1
17	INVALID \$CONTROL PARAMETER	BASIC Compiler	3-19
17	LENGTH OUT OF RANGE	MERGE	5-7
17	MULTIPLE SEGMENT NAMES	FORTTRAN	3-3
17	NO ENTRY	RPG	3-17
17	POSITION OUT OF RANGE	SORT	5-5
17	SST UNCALLABLE	MPE Intrinsics	2-4
17	STATEMENT FOLLOWING THEN/ELSE MISSING	BASIC Interpreter	3-23
17	SYNTAX ERROR: IN EBCDICIN OPTION	FCOPY	5-3
17	TRANSFER INTO USER FUNCTION	BASIC Interpreter	3-24
17	UNMATCHED END COMMAND	EDIT	5-2
17	UPDATE ATTEMPTED TO NON-BASIC FILE	BASIC Interpreter	3-25
18		IMAGE	4-6
18		EMULATOR	6-4
18		CONSOLE	7-6
18	SENTRY INVALID UNDER SUBPROGRAM MODE	BASIC Compiler	3-19
18	'DOEND' WITHOUT 'DO'	BASIC Interpreter	3-24
18	FAILURE TO "ACTIVATE" BASIC.PUB.SYS	BASIC Compiler	3-21
18	FREAD ERROR ON INPUTFILE	SORTLIB	5-4
18	FRELATE	MPE Intrinsics	2-5
18	IMPROPER INTEGER	COBOL	3-4
18	INSUFFICIENT LINE NUMBERS FOR GATHER OR JOIN - NOT	EDIT	5-2
18	LENGTH PARAMETER NOT AN INTEGER	MERGE	5-7
18	MISING PARAMETER	SORT	5-5
18	MISSING REPLICATOR IN IMAGE	BASIC Interpreter	3-25
18	NUMERIC VARIABLE MUST FOLLOW TYPE DECLARATION	BASIC Interpreter	3-23
18	PROCESS QUIT.PARAM=number	MPE Intrinsics	2-4
18	SYMBOLIC NAME REDUNDANTLY TYPED	FORTTRAN	3-3
18	SYNTAX ERROR: IN BCDICOUT OPTION	FCOPY	5-3
18	UNABLE TO OPEN SL FILE	Segmenter	5-1
19		EMULATOR	6-4
19		CONSOLE	7-6
19	\$TITLE STRING TOO LONG, TRUNCATED TO 104 CHARACTER	BASIC Compiler	3-19
19	ATN(0,0) - RESULT = ZERO	BASIC Interpreter	3-25
19	COM NOT SAME AS FIRST OCCURRENCE	BASIC Interpreter	3-24
19	FALSE RETURN FROM EDITOR PROCEDURE	EDIT	5-2
19	FREADLABEL	MPE Intrinsics	2-5
19	FWRITE ERROR ON OUTPUTFILE	SORTLIB	5-4
19	IMPOSSIBLE INTERNAL ERROR	SPOOK	5-18
19	INVALID SL FILE	Segmenter	5-1
19	LENGTH NOT SPECIFIED FOR TYPE BYTE, PACKED, DISPLA	MERGE	5-7

CODE	MESSAGE	SYSTEM	TABLE
19	LENGTH OUT OF RANGE	SORT	5-5
19	NUMERIC FUNCTION MUST FOLLOW TYPE DECLARATION	BASIC Interpreter	3-23
19	PROGRAM QUIT,PAPAM=number	MPE Intrinsics	2-4
19	REDEFINED DATA-NAME NOT DEFINED	COBOL	3-4
19	STATEMENT NUMBER OVERLAP/OVERFLOW	BASIC Interpreter	3-22
19	SYMBOLIC NAME REDUNDANTLY EXTERNALLED	FORTRAN	3-3
19	SYNTAX ERROR: INVALID FORM OF EXIT COMMAND	FCOPY	5-3
20		IMAGE	4-6
20		CONSOLE	7-6
20	'NEXT' WITHOUT 'FOR'	BASIC Interpreter	3-24
20	ACTIVATION OF SYSTEM PROCESS NOT ALLOWED	MPE Intrinsics	2-10
20	DATA BASE IS LOCKED BY ANOTHER PROCESS	RPG	3-17
20	EXTRA RIGHT PARENTHESIS IN IMAGE	BASIC Interpreter	3-25
20	EXTRANEIOUS CHARACTER	BASIC Compiler	3-19
20	EXTRANEIOUS EQUATE GROUP	FORTRAN	3-3
20	FCLOSE ERROR ON SCRATCHFILE	SORTLIB	5-4
20	FWRITELABEL	MPE Intrinsics	2-5
20	ILLEGAL LIBRARY SEARCH	MPE Intrinsics	2-8
20	ILLEGAL PICTURE	COBOL	3-4
20	ILLEGAL RL FILE SPECIFICATION	Segmenter	5-1
20	INCORRECT PASSWORD FOR RIN	MPE Intrinsics	2-13
20	INSUFFICIENT CAPABILITY	MPE Intrinsics	2-11
20	INVALID COMMAND NAME	SPOOK	5-18
20	INVALID OPERATION	MPE Intrinsics	2-7
20	LENGTH PARAMETER NOT AN INTEGER	SORT	5-5
20	MISSING 'TO'	BASIC Interpreter	3-23
20	MISSING DESC.	MERGE	5-7
20	NOTHING DELETED	BASIC Interpreter	3-22
20	PARSED PARAM OF COMIMAGE>255 CHARACTERS	MPE Intrinsics	2-12
20	STACK OVERFLOW	MPE Intrinsics	2-4
20	SYNTAX ERROR	MPE Commands	2-1
20	UNDELIMITED STRING	EDIT	5-2
20	UNKNOWN SUBQUEUE NAME	MPE Intrinsics	2-9
20,X	SYNTAX ERROR	DS	6-8
21		CONSOLE	7-6
21	'>EOD' INPUT	BASIC Compiler	3-21
21	ACTIVATION OF MAIN PROCESS NOT ALLOWED	MPE Intrinsics	2-10
21	COMMAND NAME TOO BIG	SPOOK	5-18
21	DATA PARITY ERROR	MPE Intrinsics	2-7
21	INPUT FILE IS WRITE-ONLY	MERGE	5-7
21	INVALID KEY, SEQUENCE ERROR	COBOL	3-4,1
21	LENGTH NOT SPECIFIED FOR TYPE BYTE, PACKED, DISPLA	SORT	5-5
21	MISSING RIGHT PARENTHESIS IN IMAGE	BASIC Interpreter	3-25
21	NO SUCH FILE OR ILLEGAL ACCESS	BASIC Interpreter	3-24
21	ONLY ONE RIN CAN BE LOCKED	MPE Intrinsics	2-13
21	PARAMETER NOT OPTIONAL	MPE Commands	2-1
21	PRINTFILEINFO	MPE Intrinsics	2-5
21	PROGRAM KILLED	MPE Intrinsics	2-4
21	REFERENCE NOT UNIQUE	COBOL	3-4
21	RL FILE NOT DESIGNATED	Segmenter	5-1
21	STRING >255 CHARACTERS ILLEGAL	BASIC Interpreter	3-23
21	STRING NOT FOUND BEFORE LIMIT	EDIT	5-2
21	SUBQUEUE 'A' REQUESTED WITHOUT FROZEN STACK	MPE Intrinsics	2-9
21	TRACE/BREAK TABLE OVERFLOW	BASIC Interpreter	3-22
21	UNABLE TO OPEN FASTSAVE FILE	BASIC Compiler	3-19
21	UNKNOWN ENTRY POINT	MPE Intrinsics	2-8
22		CONSOLE	7-6
22	DOES NOT EXIST, variable/function name	BASIC Interpreter	3-22
22	EMPTY INPUT LIST OR ILLEGAL SEPARATOR	BASIC Interpreter	3-23
22	EXP OVERFLOW - RESULT = 1E77	BASIC Interpreter	3-25
22	EXTRA INITIAL VALUES	FORTRAN	3-3
22	FAILURE ON FOPEN OF OUTPUT FILE	MERGE	5-7
22	FILE NOT TYPE FASTSAVE	BASIC Compiler	3-19
22	ILLEGAL PARAMETER	MPE Commands	2-1

CODE	MESSAGE	SYSTEM	TABLE
22	INVALID KEY, DUPLICATE KEY	COBOL	3-4.1
22	INVALID RL FILE	Segmenter	5-1
22	INVALID STACK MARKER	MPE Intrinsic	2-4
22	IOWAIT	MPE Intrinsic	2-5
22	LINE DOES NOT EXIST	EDIT	5-2
22	MISSING DESC.	SORT	5-5
22	NO MORE BUFFER SPACE	BASIC Interpreter	3-24
22	PROMPT I/O ERROR	SPOOK	5-18
22	RIN IS NOT ALLOCATED	MPE Intrinsic	2-13
22	SECTION MISPLACED	COBOL	3-4
22	SOFTWARE TIME-OUT	MPE Intrinsic	2-7
22	TRACE SUBSYSTEM NOT PRESENT	MPE Intrinsic	2-8
22	ILLEGAL PARAMETER	DS	6-8
23		CONSOLE	7-6
23	ADDRESS VIOLATION	MPE Intrinsic	2-4
23	END OF TAPE	MPE Intrinsic	2-7
23	EXTRANEIOUS DATA ITEM	FORTRAN	3-3
23	FAILURE TO OPEN TEXT FILE (errorcode)	EDIT	5-2
23	FILE PROTECTED BY ANOTHER USER	BASIC Interpreter	3-24
23	I/O ERROR ON FASTSAVE FILE	BASIC Compiler	3-19
23	ILLEGAL EXPRESSION OR MISSING 'THEN'	BASIC Interpreter	3-23
23	INPUT FILE IS WRITE-ONLY	SORT	5-5
23	INPUT I/O ERROR	SPOOK	5-18
23	INSUFFICIENT CAPABILITY FOR NON-STANDARD SUBQUEUE	MPE Intrinsic	2-9
23	INVALID KEY, NO RECORD FOUND	COBOL	3-4.1
23	INVALID STRING INPUT	BASIC Compiler	3-21
23	IS NOT ACTIVE, function name	BASIC Interpreter	3-22
23	LEVEL NUMBER IN REDEFINE CLAUSE IS 66 OR 88	COBOL	3-4
23	MORE THAN 10 GOSURS	BASIC Interpreter	3-25
23	OUTPUT FILE IS READ-ONLY	MERGE	5-7
23	PARAMETER OUT OF BOUNDS	MPE Commands	2-1
23	RIN IS TOO LARGE FOR THE RIN TABLE	MPE Intrinsic	2-13
23	STACK SIZE TOO SMALL	MPE Intrinsic	2-8
23	UNABLE TO CLOSE RL FILE	Segmenter	5-1
24		EMULATOR	6-4
24		CONSOLE	7-6
24	BAD FASTSAVE FILE ATTRIBUTES	BASIC Compiler	3-19
24	BOUNDS VIOLATION	MPE Intrinsic	2-4
24	FAILURE ON FOPEN OF OUTPUT FILE	SORT	5-5
24	ILLEGAL MAT OPERATOR	BASIC Interpreter	3-23
24	ILLEGAL PARAMETER IN THIS CONTEXT	MPE Commands	2-1
24	INVALID KEY, BOUNDARY VIOLATION	COBOL	3-4.1
24	IS UNDEFINED, variable name	BASIC Interpreter	3-22
24	MAXDATA TOO LARGE	MPE Intrinsic	2-8
24	NO INITIAL VALUES	FORTRAN	3-3
24	NO INPUTFILES WERE SPECIFIED	MERGE	5-7
24	NON-EDITABLE FILE TYPE (filecode)	EDIT	5-2
24	READ ONLY FILE	BASIC Interpreter	3-24
24	REDEFINING A DIFFERENT LEVEL	COBOL	3-4
24	RETURN WITHOUT GOSUR	BASIC Interpreter	3-25
24	RIN IS NOT GLOBAL RIN	MPE Intrinsic	2-13
24	UNABLE TO CLOSE FILE	SPOOK	5-18
24	UNIT NOT READY	MPE Intrinsic	2-7
24	UNKNOWN PORTION OF MASTER QUEUE	MPE Intrinsic	2-9
25		EMULATOR	6-4
25		CONSOLE	7-6
25	DATA SEGMENT TOO LARGE	MPE Intrinsic	2-8
25	DUPLICATE PARAMETER	MPE Commands	2-1
25	FAILURE ON FCLOSE OF OUTPUT FILE	MERGE	5-7
25	FUNCTION NOT TERMINATED BY RETURN	BASIC Interpreter	3-25
25	INITIAL VALUE TRUNCATED	FORTRAN	3-3
25	INSUFFICIENT CAPABILITY FOR MASTER QUEUE	MPE Intrinsic	2-9
25	INVALID NUMBER INPUT	BASIC Compiler	3-21
25	IS NOT AN ARRAY, variable name	BASIC Interpreter	3-22

CODE	MESSAGE	SYSTEM	TABLE
25	LOADING OF 'CALL' PROGRAM FAILED	BASIC Interpreter	3-24
25	NO WRITE-RING ON TAPE	MPE Intrinsic	2-7
25	NON-RESPONDING MODULE	MPE Intrinsic	2-4
25	OUTPUT FILE IS READ-ONLY ONLY	SORT	5-5
25	REDEFINING A TABLE	COBOL	3-4
25	SCRATCH FILE OPEN FAILURE (errorcode)	EDIT	5-2
25	UNABLE TO PURGE FILE	SPOOK	5-18
26		EMULATOR	6-4
26		CONSOLE	7-6
26	'FOR' - 'NEXT' VARIABLES DON'T MATCH	BASIC Interpreter	3-24
26	ABSOLUTE PRIORITY REQUESTED WITHOUT CAPABILITY	MPE Intrinsic	2-9
26	DATA PARITY	MPE Intrinsic	2-4
26	FAILURE ON FCLOSE OF OUTPUT FILE	SORT	5-5
26	FILE READ ERROR	SPOOK	5-18
26	GETDSEG FAILURE reason SEGMENT OF SAME IDENTITY AL	EDIT	5-2
26	ILLEGAL KEYWORD	MPE Commands	2-1
26	INVALID FILE NUMBER	BASIC Compiler	3-21
26	IS AN ARRAY, variable name	BASIC Interpreter	3-22
26	MISSING '*'	BASIC Interpreter	3-23
26	OUT OF INPUT DATA	BASIC Interpreter	3-25
26	PROGRAM LOADED IN OPPOSITE MODE	MPE Intrinsic	2-8
26	REDEFINING AN ITEM SUBORDINATED TO A TABLE	COBOL	3-4
26	STATEMENT FUNCTION DUMMY USED AS NON-SIMPLE VAR	FORTTRAN	3-3
26	SUBPROGRAM INVALID AFTER SENTRY OR START	BASIC Compiler	3-19
26	SUM OF KEYFIELD SIZES TOO LARGE FOR OUTPUT FILE	MERGE	5-7
26	TRANSMISSION ERROR	MPE Intrinsic	2-7
26,X	ILLEGAL KEYWORD	DS	6-8
27		CONSOLE	7-6
27	'ELSE' WITHOUT 'IF - THEN'	BASIC Interpreter	3-24
27	AN E.O.D. RECEIVED BEFORE TEXT FILE END	EDIT	5-2
27	DUPLICATE KEYWORD	MPE Commands	2-1
27	EXPRESSION VS. NON-EXPRESSION ARGUMENT	FORTTRAN	3-3
27	FAILURE ON PURGE OF OLD OUTPUT FILE	MERGE	5-7
27	FILE FCONTROL ERROR	SPOOK	5-18
27	I/O TIME-OUT	MPE Intrinsic	2-7
27	ILLEGAL MAT ASSIGNMENT RIGHT PART	BASIC Interpreter	3-23
27	ILLEGAL NUMBER OF SUBSCRIPTS	BASIC Interpreter	3-22
27	ILLEGAL PRIORITY CLASS SPECIFIED	MPE Intrinsic	2-9
27	MEMORY PARITY	MPE Intrinsic	2-4
27	NEGATIVE FILE SIZE	BASIC Compiler	3-21
27	NEGATIVE NUMBER TO REAL POWER	BASIC Interpreter	3-25
27	REDEFINES CLAUSE CONTAINS A VALUE CLAUSE	COBOL	3-4
27	SL BINDING ERROR	MPE Intrinsic	2-8
27	SUM OF KEYFIELD SIZES TOO LARGE	SORT	5-5
27	TOO MANY PROGRAM VARIABLES	BASIC Compiler	3-19
27,X	DUPLICATE KEYWORD	DS	6-8
28		EMULATOR	6-4
28		CONSOLE	7-6
28	CHRS PARAMETER OUT OF RANGE	BASIC Interpreter	3-25
28	FAILURE ON FOPEN OF OLD OUTPUT FILE	MERGE	5-7
28	FAILURE ON PURGE OF OLD OUTPUT FILE	SORT	5-5
28	FILE NOT 'READY'	SPOOK	5-18
28	ILLEGAL KEYWORD IN THIS CONTEXT	MPE Commands	2-1
28	ILLEGAL MAT ASSIGNMENT	BASIC Interpreter	3-23
28	INCOMPATIBLE DIMENSIONALITY IN USER FUNCTION REFER	BASIC Interpreter	3-24
28	INVALID PROGRAM NAME	BASIC Compiler	3-19
28	INVALID RECORD SIZE	BASIC Compiler	3-21
28	INVALID SYSTEM SL FILE	MPE Intrinsic	2-8
28	PRIORITY OMITTED WHILE FATHER PROCESS IN MASTER Q	MPE Intrinsic	2-9
28	PROCEDURE HAS NOT USABLE ENTRY POINT	Segmenter	5-1
28	REPORT WRITER MODULE NOT IMPLEMENTED	COBOL	3-4
28	SCRATCH FILE READ ERROR (errorcode)	EDIT	5-2
28	SUBPROGRAM VS. NON-SUBPROGRAM ARGUMENT	FORTTRAN	3-3
28	SYSTEM PARITY	MPE Intrinsic	2-4

CODE	MESSAGE	SYSTEM	TABLE
28	TIMING ERROR OR DATA OVERRUN	MPE Intrinsics	2-7
29		CONSOLE	7-6
29	ATTEMPT TO ACCESS UNOPENED FILE	BASIC Compiler	3-21
29	FAILURE ON FOPEN OF OLD OUTPUT FILE	SORT	5-5
29	FAILURE ON FRENAME OF OUTPUT FILE	MERGE	5-7
29	ILLEGAL NAME	MPE Commands	2-1
29	ILLEGAL NUMBER	BASIC Interpreter	3-25
29	ILLEGAL STRING MAT INITIALIZATION	BASIC Interpreter	3-23
29	ILLEGAL SUBSCRIPT	BASIC Interpreter	3-22
29	IMPROPER PROGRAM NAME	COBOL	3-4
29	INDIRECT FILE REFERENCE OUT OF BOUNDS	BASIC Interpreter	3-24
29	INVALID LINENUMBER ON NUMBERED TEXT OR JOIN FILE -	EDIT	5-2
29	INVALID PUBLIC SL FILE	MPE Intrinsics	2-8
29	PRIORITY RANK RESERVED TO SUPERVISOR CAPABILITY	MPE Intrinsics	2-9
29	QUALIFIER DELETED	BASIC Compiler	3-19
29	SIO FAILURE	MPE Intrinsics	2-7
29	STACK OVERFLOW	MPE Intrinsics	2-4
29	SUBROUTINE VS. FUNCTION ARGUMENT	FORTRAN	3-3
29	UNABLE TO OPEN FILE	SPOOK	5-18
30		CONSOLE	7-6
30	'INV' ARRAY PARAMETER NOT SQUARE	BASIC Interpreter	3-25
30	ARGUMENT TYPE INCONSISTENT	FORTRAN	3-3
30	ATTEMPT TO LOCK NON-LOCKABLE FILE	BASIC Compiler	3-21
30	CST VIOLATION	MPE Intrinsics	2-4
30	DMOVOUT ERROR	EDIT	5-2
30	FAILURE ON FRENAME OF OUTPUT FILE	SORT	5-5
30	FAILURE ON FWRITE OF PROMPT FILE	MERGE	5-7
30	GETLOCKIN	MPE Intrinsics	2-5
30	ILLEGAL DUMMY SUBSCRIPT	BASIC Interpreter	3-23
30	ILLEGAL WHILE RUN SUSPENDED	BASIC Interpreter	3-22
30	INPUT FILE NOT ALLOWED	SPOOK	5-18
30	INTEGER ARGUMENT IN 'INV'	BASIC Interpreter	3-24
30	INVALID GROUP SL FILE	MPE Intrinsics	2-8
30	INVALID NUMBER	MPE Commands	2-1
30	LOAD ERROR	MPE Intrinsics	2-9
30	MNEMONIC NAME MUST BE UNIQUE	COBOL	3-4
30	UNABLE TO OPEN RL FILE	Segmenter	5-1
30	UNABLE TO PROCESS SENTRY COMMANDS	BASIC Compiler	3-19
30	UNIT FAILURE	MPE Intrinsics	2-7
30,X	INVALID NUMBER	DS	6-8
31		EMULATOR	6-4
31		CONSOLE	7-6
31	'INV' ARRAY PARAMETER IS SINGULAR	BASIC Interpreter	3-25
31	ATTEMPT TO LOCK SECOND FILE	BASIC Compiler	3-21
31	DUPLICATE 'FOR' VARIABLE IN SAME RANGE	BASIC Interpreter	3-24
31	END OF LINE	MPE Intrinsics	2-7
31	FAILURE ON FREAD OF TEXT FILE	MERGE	5-7
31	FAILURE ON FWRITE OF PROMPT FILE	SORT	5-5
31	FILE NOT FOUND	SPOOK	5-18
31	FRELOCKIN	MPE Intrinsics	2-5
31	ILLEGAL MAT READ OR INPUT ITEM	BASIC Interpreter	3-23
31	INVALID PROGRAM FILE	MPE Intrinsics	2-8
31	LACK OF SYSTEM RESOURCE	MPE Intrinsics	2-9
31	OCCURS CLAUSE CANNOT BE SPECIFIED ON AN 01 OR 77	COBOL	3-4
31	SCRATCH FILE WRITE ERROR (errorcode)	EDIT	5-2
31	STT VIOLATION	MPE Intrinsics	2-4
31	SUBPROGRAM NAME NOT EXTERNALLED	FORTRAN	3-3
31	SUSPENDED RUN ABORTED	BASIC Interpreter	3-22
31	TOO MANY FUNCTION VARIABLES	BASIC Compiler	3-19
32		CONSOLE	7-6
32	SENTRY NAME TOO LONG, TRUNCATED TO 8 CHARACTERS	BASIC Compiler	3-19
32	ARGUMENTS OF NESTED REFERENCE NOT CHECKED	FORTRAN	3-3
32	ARRAY MULTIPLICANDS WITHOUT DIMENSIONS	BASIC Interpreter	3-25
32	ATTEMPT TO UNLOCK NON-LOCKABLE FILE	BASIC Compiler	3-21

CODE	MESSAGE	SYSTEM	TABLE
32	DMOVIN ERROR	EDIT	5-2
32	EXPRESSION ILLEGAL IN 'GOSUB-RETURN'	BASIC Interpreter	3-24
32	FAILURE ON FREAD OF TEXT FILE	SORT	5-5
32	ILLEGAL FORMAT STRING SPECIFIER	BASIC Interpreter	3-23
32	INVALID FILE ID	SPOOK	5-18
32	INVALID LIST FILE	MPE Intrinsic	2-8
32	INVALID PROGRAM FILE	Segmenter	5-1
32	LOCKLOCPRIN	MPE Intrinsic	2-5
32	MAXIMUM ACCOUNT PRIORITY EXCEEDED	MPE Intrinsic	2-9
32	MULTIPLE REEL/UNIT NOT IMPLEMENTED	COBOL	3-4
32	PROGRAM NOT RUNNING	BASIC Interpreter	3-22
32	SOFTWARE ABORT	MPE Intrinsic	2-7
33		CONSOLE	7-6
33	ADVANCE ATTEMPTED ON NON-BASIC FILE ADVANCE#	BASIC Compiler	3-21
33	ARRAY ADDENDS OR SUBTRAHENDS WITHOUT DIMENSIONS	BASIC Interpreter	3-25
33	CODE SEGMENT > 16K WORDS	BASIC Compiler	3-19
33	CODE SEGMENT TOO LARGE	MPE Intrinsic	2-8
33	DATA LOST	MPE Intrinsic	2-7
33	ILLEGAL CAPABILITY SPECIFICATION	Segmenter	5-1
33	INTRINSIC NAME CONVERTED TO SIMPLE VARIABLE	FORTRAN	3-3
33	INVALID COLUMN RANGE (FIRST HOLLOWS SECOND)	EDIT	5-2
33	MISSING SEMICOLON	BASIC Interpreter	3-23
33	RERUN OPTION NOT IMPLEMENTED	COBOL	3-4
33	RETURN EXPRESSION TYPE INCOMPATIBLE WITH 'DEF' TYP	BASIC Interpreter	3-24
33	STRING LENGTH EXCEEDED	BASIC Interpreter	3-22
33	UNEXPECTED CHARACTER	SPOOK	5-18
33	UNLOCKLOCPRIN	MPE Intrinsic	2-5
34		CONSOLE	7-6
34	ARRAY PHYSICAL SIZE EXCEEDED	BASIC Interpreter	3-25
34	ERROR ATTEMPTING FILE READ	BASIC Interpreter	3-22
34	FILE-LIMIT(S) CLAUSE NOT IMPLEMENTED	COBOL	3-4
34	LOCKGLORIN	MPE Intrinsic	2-5
34	MORE THAN 16 FILES	BASIC Compiler	3-19
34	MORE THAN ONE EXTENT USED	Segmenter	5-1
34	OUT OF RANGE + OR - 1E77 USED	BASIC Interpreter	3-23
34	PROGRAM USES MORE THAN ONE EXTENT	MPE Intrinsic	2-8
34	REFERENCE TO NON-EXISTENT STATEMENT	BASIC Interpreter	3-24
34	STATEMENT CANNOT BE PEACHED	FORTRAN	3-3
34	UNABLE TO OPEN FILE: TOO MANY FILES	BASIC Compiler	3-21
34	UNIT NOT ON-LINE	MPE Intrinsic	2-7
34	USER NAME TOO BIG	SPOOK	5-18
34	WARNING - HOLD FILE IS EMPTY	EDIT	5-2
35		CONSOLE	7-6
35	ADVANCE ATTEMPTED TO NON-BASIC FILE	BASIC Interpreter	3-25
35	DATA SEGMENT TOO LARGE	MPE Intrinsic	2-8
35	DATA-SET NOT READY	MPE Intrinsic	2-7
35	FAILURE TO LOAD LIBRARY PROCEDURE	EDIT	5-2
35	ILLEGAL PROGRAM FILE	BASIC Interpreter	3-22
35	NO PROGRAM TO PREPARE	Segmenter	5-1
35	OUT OF RANGE + OR - 1E-77 USED	BASIC Interpreter	3-23
35	REFERENCED STATEMENT NOT 'IMAGE'	BASIC Interpreter	3-24
35	SAME RECORD/SORT AREA FILE-NAME UNDEFINED	COBOL	3-4
35	UNABLE TO OPEN USER FILE: filename	BASIC Compiler	3-21
35	UNLOCKGLORIN	MPE Intrinsic	2-5
35	USER NOT ACCESSIBLE	SPOOK	5-18
35	USL FILE SPACE EXCEEDED	BASIC Compiler	3-19
36		CONSOLE	7-6
36	'PEDIM' STRING NOT STRING ARRAY	BASIC Interpreter	3-24
36	ACCOUNT NAME TOO BIG	SPOOK	5-18
36	DATA SEGMENT TOO LARGE	MPE Intrinsic	2-8
36	EMPTY PROGRAM	BASIC Interpreter	3-22
36	FILE-NAME APPEARS IN MORE THAN 1 SAME/RECORD/SORT	COBOL	3-4
36	INVALID CHARACTER	BASIC Compiler	3-19
36	INVALID DISC ADDRESS	MPE Intrinsic	2-7

CODE	MESSAGE	SYSTEM	TABLE
36	READ ONLY FILE	BASIC Interpreter	3-25
36	RETURN OR STOP INSERTED	FORTRAN	3-3
36	SCRATCH FILE IS FULL. KEEP, THEN TEXT AGAIN	EDIT	5-2
36	UNABLE TO CLOSE PROGRAM FILE	Segmenter	5-1
36	UPDATE ATTEMPTED ON NON-BASIC FILE UPDATE#	BASIC Compiler	3-21
37		CONSOLE	7-6
37	ACCOUNT NOT ACCESSIBLE	SPOOK	5-18
37	ARRAYS OF DIFFERENT TYPE IN MAT STATEMENT	BASIC Interpreter	3-24
37	BLANK LINE ILLEGAL	FORTRAN	3-3
37	DIRECT ACCESS ILLEGAL	BASIC Interpreter	3-25
37	FILE-NAME NOT IN SAME RECORD/SOFT AREA CLAUSE	COBOL	3-4
37	INVALID INTEGER	EDIT	5-2
37	INVALID MEMORY ADDRESS	MPE Intrinsics	2-7
37	MISSING GROUP REPLICATOR	BASIC Compiler	3-19
37	PROGRAM NAME IS UNDEFINED	BASIC Interpreter	3-22
37	TOO MANY CODE SEGMENTS	MPE Intrinsics	2-8
37	UNABLE TO OPEN FILE: INSUFFICIENT SPACE FOR BUFFER	BASIC Compiler	3-21
37	UNABLE TO OPEN PROGRAM FILE	Segmenter	5-1
38	ASSIGN ATTEMPTED DURING FILE ACCESS	BASIC Interpreter	3-25
38	DATA SEGMENT OVERFLOW	Segmenter	5-1
38	ERROR ATTEMPTING FILE OUTPUT	BASIC Interpreter	3-22
38	FORMAL FILE DESIGNATOR MORE THAN 8 CHARACTERS	COBOL	3-4
38	INVALID LINE MNEMONIC	SPOOK	5-18
38	INVALID LINKED-FILE NUMBER	BASIC Compiler	3-21
38	INVALID RECORD-LINE PAIR (SUBSYSTEM PROBLEM)	EDIT	5-2
38	REPLICATOR NOT ALLOWED	BASIC Compiler	3-19
38	TAPE PARITY ERROR	MPE Intrinsics	2-7
38	TOO MANY CODE SEGMENTS	MPE Intrinsics	2-8
38	TOO MANY CONTINUATION LINES	FORTRAN	3-3
39	'DEF' WITHOUT 'ENDEF'	BASIC Interpreter	3-24
39	CAN'T APPEND FAST-MAVED PROGRAM	BASIC Interpreter	3-22
39	EXPECTED CONTINUATION LINE	FORTRAN	3-3
39	FILE RECORD LENGTH EXCEEDED	BASIC Interpreter	3-25
39	FILE SIZE MORE THAN 9 DIGITS	COBOL	3-4
39	ILLEGAL CAPABILITY	MPE Intrinsics	2-8
39	INSUFFICIENT SPACE FOR COMMON	BASIC Compiler	3-21
39	INVALID LINE NUMBER	SPOOK	5-18
39	MISSING RIGHT QUOTE	BASIC Compiler	3-19
39	RANGE IS NULL OR FIRST POSITION FOLLOWS SECOND	EDIT	5-2
39	RECOVERED TAPE ERROR	MPE Intrinsics	2-7
39	TOO MANY CODE SEGMENTS	Segmenter	5-1
40	'DO' WITHOUT 'DOEND'	BASIC Interpreter	3-24
40	>BASIC NOT ALLOWED	BASIC Interpreter	3-25
40	CODE SEGMENT OVERFLOW	Segmenter	5-1
40	EXPECTED COMPILER CONTROL KEYWORD	FORTRAN	3-3
40	INVALID LINE COUNT	SPOOK	5-18
40	LINPUT# ATTEMPTED ON NON-ASCII FILE	BASIC Compiler	3-21
40	MISSING NUMBER AFTER APOSTROPHE	BASIC Compiler	3-19
40	NON-NUMERIC VALUE EXCEEDS SIZE OF ITEM	COBOL	3-4
40	OPERATION INCONSISTENT WITH ACCESS TYPE	MPE Intrinsics	2-7
40	STATEMENT NUMBER OVERLAP	BASIC Interpreter	3-22
40	TIMER	MPE Intrinsics	2-5
40	TOO MANY PROCEDURES LOADED	MPE Intrinsics	2-8
40	UNDEFINED TEXT	EDIT	5-2
41		IMAGE	4-6
41	'FOR' WITHOUT 'NEXT'	BASIC Interpreter	3-24
41	ATTEMPT TO WRITE ON READ-ONLY FILE	BASIC Compiler	3-21
41	ATTEMPTED MODIFICATION OF A CRITICAL ITEM	RPG	3-17
41	CLASS NOT DA, UT, OR UR	COBOL	3-4
41	DATS PARAMETERS OUT OF RANGE	BASIC Interpreter	3-25
41	EXPECTED SYMBOLIC NAME	FORTRAN	3-3
41	FAILURE TO OPEN KEEP FILE (errorcode)	EDIT	5-2
41	INVALID LINE RANGE	SPOOK	5-18
41	INVALID NUMERIC SPECIFICATION	BASIC Compiler	3-19



CODE	MESSAGE	SYSTEM	TABLE
41	OPERATION INCONSISTENT WITH RECORD TYPE	MPE Intrinsic	2-7
41	RUN TERMINATED DUE TO ERRORS	BASIC Interpreter	3-22
41	STT OVERFLOW	Segmenter	5-1
41	UNKNOWN PROCEDURE NAME	MPE Intrinsic	2-8
42		IMAGE	4-6
42	ATTEMPT TO READ FROM WRITE-ONLY FILE	BASIC Compiler	3-21
42	ATTEMPTED MODIFICATION OF A READ-ONLY ITEM	RPG	3-17
42	ILLEGAL WHILE RUN SUSPENDED - DO YOU WANT TO ABORT	BASIC Interpreter	3-22
42	INVALID PROCEDURE NUMBER	MPE Intrinsic	2-8
42	NON TERMINATED CHARACTER STRING	SPOOK	5-18
42	NOT ACCEPTABLE AT THIS POINT	FORTRAN	3-3
42	NUMBER >255	BASIC Compiler	3-19
42	OPERATION INCONSISTENT WITH DEVICE TYPE	MPE Intrinsic	2-7
42	PROCTIME	MPE Intrinsic	2-5
42	PROGRAM STARTED WITHIN USER FUNCTION	BASIC Interpreter	3-25
42	RECORDING MODE NOT A OR B	COBOL	3-4
42	SEGMENT HAS NO USABLE ENTRY POINT	Segmenter	5-1
42	SIMPLE VARIABLE ILLEGAL IN MAT STATEMENT	BASIC Interpreter	3-24
42	WRITE ERROR ON KEEP FILE (errorcode)	EDIT	5-2
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43	DIPECT ACCESS ATTEMPTED ON SERIAL FILE	BASIC Compiler	3-21
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43	ILLEGAL PROCEDURE UNLOAD	MPE Intrinsic	2-8
43	IMPROPER STATEMENT LABEL	FORTRAN	3-3
43	INVALID OPTION NAME	SPOOK	5-18
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43	MISSING D-PART	BASIC Compiler	3-19
43	OCCURS SUBJECT MUST BE THE ONLY KEY	COBOL	3-4
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44	FILE NUMBER OUT OF RANGE	BASIC Interpreter	3-25
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44	REPLICATOR >255	BASIC Compiler	3-19
44	REQUIRES PRIVILEGED MODE CAPABILITY	Segmenter	5-1
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45	ACTUAL PARAMETERS INCOMPATIBLE WITH FORMAL PARAMET	Segmenter	5-1
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45	FILE NOT OPEN	BASIC Interpreter	3-25
45	INTRINSIC IN TRACE RECORD	FORTRAN	3-3
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45	NUMERIC UPDATE ITEM FOR STRING DATA	BASIC Compiler	3-21
45	PAUSE	MPE Intrinsic	2-5
45	PRIVILEGED FILE VIOLATION	MPE Intrinsic	2-7
45	READ ERROR ON COMMAND FILE (errorcode)	EDIT	5-2
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46	CHAIN/INVOKE/RUN TO UNDECLARED LABEL	BASIC Compiler	3-21
46	COMMAND CONTINUES PAST 256 CHARACTERS	EDIT	5-2
46	EXPECTED A '='	FORTRAN	3-3
46	MISSING LEFT PARENTHESIS IN C-SPECIFICATION	BASIC Compiler	3-19
46	NO INPUT ACCESS TO COMMAND FILE	BASIC Interpreter	3-22
46	NO TEXT FILE	SPOOK	5-18
46	OUT OF DISC SPACE	MPE Intrinsic	2-7

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47	DATA RECORD NOT 01-LEVEL	COBOL	3-4
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47	FILE DATA OF WRONG TYPE	BASIC Interpreter	3-25
47	FILE NOT 'READY/OPEN'	SPOOK	5-18
47	I/O ERROR ON FILE LABEL	MPE Intrinsics	2-7
47	MISSING SEPARATOR	BASIC Compiler	3-19
47	PROGRAM UNIT CONTAINS NON-FATAL ERROR	Segmenter	5-1
47	SEQUENCE FIELD TOO LONG	FORTRAN	3-3
47	STRING EVALUATES TO INVALID NUMBER IN CONVERT	BASIC Compiler	3-21
48		EMULATOR	6-4
48	88-LEVEL WITHOUT VALUE CLAUSE	COBOL	3-4
48	CODE SEGMENT MAY BE TOO LARGE	Segmenter	5-1
48	DATA BASE OPEN IN ANOTHER MODE	RPG	3-17
48	END OF FILE	BASIC Interpreter	3-25
48	FAILURE TO OPEN WHILE FILE (errorcode)	EDIT	5-2
48	INCOMPATIBLE ARRAY DIMENSIONS	BASIC Compiler	3-21
48	INPUT FILE NOT TYPE ASCII	BASIC Interpreter	3-22
48	INVALID C-SPECIFICATION	BASIC Compiler	3-19
48	INVALID OPERATION DUE TO MULTIPLE FILE ACCESS	MPE Intrinsics	2-7
48	OUT OF SEQUENCE	FORTRAN	3-3
48	TERMINAL/TYPE INCOMPATIBILITY	MPE Commands	2-1
48	TEXT FILE NOT ALLOWED	SPOOK	5-18
49	BAD OUTCLASS	MPE Commands	2-1
49	ILLEGAL STRING NAME	BASIC Interpreter	3-23
49	INTEGER-1 MUST BE < INTEGER-2 IN OCCURS CLAUSE	COBOL	3-4
49	INVALID DATA PARAMETER	BASIC Compiler	3-21
49	MISSING SEMICOLON	SPOOK	5-18
49	NO INPUT ACCESS TO INPUT FILE	BASIC Interpreter	3-22
49	TITLE TOO LONG	FORTRAN	3-3
49	UNBALANCED PARENTHESES	BASIC Compiler	3-19
49	UNIMPLEMENTED FUNCTION	MPE Intrinsics	2-7
49	UPDATE ATTEMPTED AT END OF FILE	BASIC Interpreter	3-25
49	WRITE ERROR ON WHILE FILE (errorcode)	EDIT	5-2
50		IMAGE	4-6
50		CONSOLE	7-6
50	COLUMNS <> ROWS IN MAT MULTIPLY	BASIC Compiler	3-21
50	INTEGER-2 IN OCCURS CLAUSE MUST BE > 0	COBOL	3-4
50	MINIMUM CAPABILITIES OMITTED	MPE Commands	2-1
50	MISSING OR ILLEGAL STATEMENT NUMBER	BASIC Interpreter	3-23
50	MISSING RIGHT PARENTHESIS	BASIC Compiler	3-19
50	NONEXISTENT ACCOUNT	MPE Intrinsics	2-7
50	PROGRAM UNIT ABORTED	FORTRAN	3-3
50	SUBSYSTEM BUFFER TOO SMALL	RPG	3-17
50	UNABLE TO OPEN SYSTEM SL FILE	MPE Intrinsics	2-8
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50	UPDATE DATA OF WRONG TYPE	BASIC Interpreter	3-25
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51	ARITRAP	MPE Intrinsics	2-5
51	BAD DATA BASE REFERENCE	RPG	3-17
51	DESTINATION ARRAY NOT LARGE ENOUGH	BASIC Compiler	3-21
51	EXPECTED A '('	FORTRAN	3-3
51	FAILURE TO OPEN JOIN FILE (errorcode)	EDIT	5-2
51	FILESIZE LIMIT BELOW CURRENT COUNT	MPE Commands	2-1
51	ILLEGAL INTEGER OR STATEMENT NUMBER	BASIC Interpreter	3-23
51	INVALID COMPLEX SPECIFICATION	BASIC Compiler	3-19
51	LIST FILE NOT TYPE ASCII	BASIC Interpreter	3-22
51	NONEXISTENT GROUP	MPE Intrinsics	2-7
51	OUT OF SPACE IN 'MPE' FOR 'INVOKE' FILE	BASIC Interpreter	3-25
51	SYNTAX ERROR; IN QUOTED STRING	FCOPY	5-3
51	TABLE EXCEEDS THREE DIMENSIONS	COBOL	3-4

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51	UNABLE TO OPEN PUBLIC SL FILE	MPE Intrinsic	2-8
52		CONSOLE	7-6
52	'INVOKE' FAILED 'GETTING' PROGRAM	BASIC Interpreter	3-25
52	CAPABILITY EXCEEDS ACCOUNT'S	MPE Commands	2-1
52	EMPTY GROUP	COBOL	3-4
52	EXPECTED A ')'	FORTRAN	3-3
52	ILLEGAL USER FUNCTION NAME	BASIC Interpreter	3-23
52	INVALID TAPE FILE	SPOOK	5-18
52	NO OUTPUT ACCESS TO LIST FILE	BASIC Interpreter	3-22
52	NO SUCH DATA BASE	RPG	3-17
52	NONEXISTENT PERMANENT FILE	MPE Intrinsic	2-7
52	READ ERROR ON JOIN FILE (errorcode)	EDIT	5-2
52	REPLICATOR = 0	BASIC Compiler	3-19
52	SYNTAX ERROR: IN BIT PATTERN	FCOPY	5-3
52	UNABLE TO OPEN GROUP SL FILE	MPE Intrinsic	2-8
52	XLIBTRAP	MPE Intrinsic	2-5
53		EMULATOR	6-4
53	'CHAIN' FAILED 'GETTING' PROGRAM	BASIC Interpreter	3-25
53	EXTRANEUS ')'	FORTRAN	3-3
53	ILLEGAL LIST FILE RECORD SIZE	BASIC Interpreter	3-22
53	ILLEGAL PRINT LIST ITEM	BASIC Interpreter	3-23
53	INVALID TAPE FORMAT	SPOOK	5-18
53	MAXPRI EXCEEDS ACCOUNT'S	MPE Commands	2-1
53	NONEXISTENT TEMPORARY FILE	MPE Intrinsic	2-7
53	SIZE OF DATA SEGMENT GREATER THAN 65K BYTES	COBOL	3-4
53	SYNTAX ERROR: INVALID INTEGER	FCOPY	5-3
53	TIME-OUT ON WHILE ITERATION	EDIT	5-2
53	UNABLE TO OPEN PROGRAM FILE	MPE Intrinsic	2-8
53	XSYSTRAP	MPE Intrinsic	2-5
54	BAD DATA BASE REFERENCE	RPG	3-17
54	ERROR ATTEMPTING COMMAND READ - XEQ FILE	BASIC Interpreter	3-22
54	INVALID FILE REFERENCE	MPE Intrinsic	2-7
54	ITOI': ILLEGAL ARGUMENTS	Compiler Library	5-16
54	LIMIT(S) EXCEEDS ACCOUNT'S	MPE Commands	2-1
54	LOG OF ZERO - RESULT = -1E77	BASIC Interpreter	3-25
54	OCCURS...DEPENDING ON WITHIN RANGE OF ANOTHER OCCU	COBOL	3-4
54	SYNTAX ERROR IN ABSOLUTE COLUMN POSITION EXPRESSIO	EDIT	5-2
54	SYNTAX ERROR: UNKNOWN OPTION NAME	FCOPY	5-3
54	TAPE FILE READ ERROR	SPOOK	5-18
54	UNABLE TO OPEN LIST FILE	MPE Intrinsic	2-8
54	XCONTRAP	MPE Intrinsic	2-5
55		DS	6-10
55	ATTEMPT TO EXECUTE FENED	BASIC Compiler	3-21
55	COMPLEX ABS OVERFLOW - RESULT =1E77	BASIC Interpreter	3-25
55	DEVICE UNAVAILABLE	MPE Intrinsic	2-7
55	EXPECTED A ')'	FORTRAN	3-3
55	FILE-NAME NOT APPEARED IN A SELECT CLAUSE	COBOL	3-4
55	ILLEGAL FILE NAME	MPE Commands	2-1
55	ILLEGAL ITEM IN STRING EXPRESSION	BASIC Interpreter	3-23
55	READ ERROR ON HOLD FILE (errorcode)	EDIT	5-2
55	RESETCONTROL	MPE Intrinsic	2-5
55	RTOI': ILLEGAL ARGUMENTS	Compiler Library	5-16
55	SYNTAX ERROR: IN FROMFILE SPECIFIER	FCOPY	5-3
55	TAPE FILE WRITE ERROR	SPOOK	5-18
55	UNABLE TO CLOSE SYSTEM SL FILE	MPE Intrinsic	2-8
55	XEQ FILE NOT TYPE ASCII	BASIC Interpreter	3-22
56		DS	6-10
56	CAUSEBREAK	MPE Intrinsic	2-5
56	EXPECTED A '['	FORTRAN	3-3
56	FILE EQUATION TABLE FULL	MPE Commands	2-1
56	ILLEGAL STRING CONSTANT	BASIC Interpreter	3-23
56	INVALID DEVICE SPECIFICATION	MPE Intrinsic	2-7
56	MISSING SUBSCRIPT IN FIRST OCCURRENCE OF COM	BASIC Compiler	3-21

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56	READ ERROR ON INPUT (errorcode)	EDIT	5-2
56	RTOR': ILLEGAL ARGUMENTS	Compiler Library	5-16
56	SQUARE ROOT OF NEGATIVE NUMBER	BASIC Interpreter	3-25
56	SYNTAX ERROR: IN TOFILE SPECIFIER	FCOPY	5-3
56	UNABLE TO CLOSE PUBLIC SL FILE	MPE Intrinsic	2-8
56	USER ACCOUNT NOT ALLOWED	SPOOK	5-18
57		EMULATOR	6-4
57	BACK FILE REFERENCE NOT FOUND	MPE Commands	2-1
57	END OF INPUT FILE	EDIT	5-2
57	INSUFFICIENT VIRTUAL MEMORY	RPG	3-17
57	INVALID CHARACTER	BASIC Compiler	3-21
57	LABEL RECORD NON 01-LEVEL	COBOL	3-4
57	NO EQUIVALENT DEVICE	SPOOK	5-18
57	OPTION SPECIFIED TWICE	BASIC Interpreter	3-22
57	OUT OF VIRTUAL MEMORY	MPE Intrinsic	2-7
57	RTOL': ILLEGAL ARGUMENTS	Compiler Library	5-16
57	SYNTAX ERROR: ILLEGAL COMBINATION OF OPTIONS	FCOPY	5-3
57	TAN OF PI/2 - RESULT = 1E77	BASIC Interpreter	3-25
57	UNABLE TO CLOSE GROUP SL FILE	MPE Intrinsic	2-8
57	UNCLOSED QUOTE	BASIC Interpreter	3-23
58		EMULATOR	6-4
58	EXPECTED ASSIGNMENT OPERATOR	FORTRAN	3-3
58	FAILURE TO OPEN HOLD FILE (errorcode)	EDIT	5-2
58	LABEL RECORD SIZE NOT 80 CHARACTERS	COBOL	3-4
58	LTOI': ILLEGAL ARGUMENTS	Compiler Library	5-16
58	MISSING GROUP REPLICATOR	BASIC Compiler	3-21
58	NO EQUIVALENT CLASS	SPOOK	5-18
58	NO PASSED FILE	MPE Intrinsic	2-7
58	PROGRAM IS RUN-ONLY	BASIC Interpreter	3-22
58	STRING USED ILLEGALLY IN NUMERIC EXPRESSION	BASIC Interpreter	3-23
58	SYNTAX ERROR: FROMFILE AND TOFILE NOT BOTH SPECIFI	FCOPY	5-3
58	TOO MANY BACK FILE REFERENCES	MPE Commands	2-1
58	UNABLE TO CLOSE PROGRAM FILE	MPE Intrinsic	2-8
58	UNDERFLOW - RESULT = ZERO	BASIC Interpreter	3-25
59	DUPLICATE FILE NAME	BASIC Interpreter	3-22
59	EXPECTED A '/'	FORTRAN	3-3
59	INVALID FILE DESIGNATOR	MPE Commands	2-1
59	LTOL': ILLEGAL ARGUMENTS	Compiler Library	5-16
59	MISSING RELATIONAL OPERATOR	BASIC Interpreter	3-23
59	NO ROOM IN DEVICE TABLE	SPOOK	5-18
59	OVERFLOW - RESULT = + OR - 1E77	BASIC Interpreter	3-25
59	REPLICATOR NOT ALLOWED	BASIC Compiler	3-21
59	STANDARD LABEL VIOLATION	MPE Intrinsic	2-7
59	SYNTAX ERROR: ILLEGAL USE OF NEW	FCOPY	5-3
59	SYSTEM-FILE-NAME BEYOND THE 1ST TREATED AS COMMENT	COBOL	3-4
59	UNABLE TO CLOSE LIST FILE	MPE Intrinsic	2-8
59	WRITE ERROR ON HOLD FILE (errorcode)	EDIT	5-2
60	CAN'T PURGE OLD FILE	BASIC Interpreter	3-22
60	CTOI': ILLEGAL ARGUMENTS	Compiler Library	5-16
60	DIVISION BY ZERO - RESULT = + OR - 1E77	BASIC Interpreter	3-25
60	EOF OR I/O ERROR ON SYSTEM SL FILE	MPE Intrinsic	2-8
60	EXPECTED A QUOTE	FORTRAN	3-3
60	FCLOSE FAILURE (errorcode)	EDIT	5-2
60	GLOBAL PIN UNAVAILABLE	MPE Intrinsic	2-7
60	MAY NOT END WITH A COMMA	BASIC Interpreter	3-23
60	MISSING RIGHT QUOTE	BASIC Compiler	3-21
60	MULTIREEL ABORT	SPOOK	5-18
60	NO OUTPUT BLOCK IS ACTIVE	Segmenter	5-1
60	SYNTAX ERROR: ILLEGAL USE OF	FCOPY	5-3
60	TERMINATE	MPE Intrinsic	2-5
60	USAGE CONFLICT BETWEEN GROUP AND ITS ELEMENTARY IT	COBOL	3-4
60,201	DS/3000 ERROR	DS	6-8
60,202	DS/3000 ERROR	DS	6-8

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60,214		DS	6-9
60,216		DS	6-9
60,216	DS/3000 ERROR	DS	6-8
60,243		DS	6-9
60,243	DS/3000 ERPOP	DS	6-8
60,244	DS/3000 ERROR	DS	6-8
60,252	DS/3000 ERPOP	DS	6-8
60,254	DS/3000 ERPOP	DS	6-8
60,55		DS	6-9
60,55	DS/3000 ERROR	DS	6-8
60,56		DS	6-9
60,56	DS/3000 ERROR	DS	6-8
61	CAN'T BE SAVED	BASIC Interpreter	3-22
61	CTranslate	MPE Intrinsic	2-5
61	DEVICE OF WRONG TYPE	MPE Commands	2-1
61	EOF OR I/O ERROR ON PUBLIC SL FILE	MPE Intrinsic	2-8
61	EXPECTED A '\'	FORTRAN	3-3
61	ILLEGAL PREDEFINED FUNCTION	BASIC Interpreter	3-23
61	IMPROPER USE OF SYNC/JUST/PIC/VALUE/BLANK WHEN 0	COBOL	3-4
61	MAXIMUM LINE NUMBER EXCEEDED ON COBOL FILE - RENUM	EDIT	5-2
61	MISSING NUMBER AFTER APOSTROPHE	BASIC Compiler	3-21
61	MORE THAN ONE OUTER BLOCK IS ACTIVE	Segmenter	5-1
61	NUM: ILLEGAL CHARACTER	Compiler Library	5-16
61	OUT OF GROUP DISC SPACE	MPE Intrinsic	2-7
61	ZERO TO ZERO POWER	BASIC Interpreter	3-25
62	BINARY	MPE Intrinsic	2-5
62	DUPLICATE ACCESS SPECIFIED	MPE Commands	2-1
62	EOF OR I/O ERROR ON GROUP SL FILE	MPE Intrinsic	2-8
62	ILLEGAL CURRENCY SIGN	COBOL	3-4
62	ILLEGAL FILE OR PROCEDURE NAME	BASIC Interpreter	3-23
62	INVALID NUMERIC SPECIFICATION	BASIC Compiler	3-21
62	MORE THAN ONE OUTER BLOCK HAS ACTIVE ENTRY POINTS	Segmenter	5-1
62	NUM: NUMBER OUT OF RANGE	Compiler Library	5-16
62	OUT OF ACCOUNT DISC SPACE	MPE Intrinsic	2-7
62	STARTED WITHIN FUNCTION	BASIC Interpreter	3-22
62	SYNTAX ERROR: FILE NAME TOO LONG	FCOPY	5-3
62	UNABLE TO EDIT FILES OF THIS CODE TYPE (filecode)	EDIT	5-2
62	ZERO TO NEGATIVE POWER - RESULT = 1E77	BASIC Interpreter	3-25
63	ASCII	MPE Intrinsic	2-5
63	COMMAND FILE RECORD TOO LONG, TRUNCATED TO 80 CHARA	BASIC Compiler	3-19
63	EOF OR I/O ERROR ON PROGRAM FILE	MPE Intrinsic	2-8
63	EXTERNAL VARIABLE NOT DECLARED GLOBAL	Segmenter	5-1
63	FILE OR PROCEDURE NAME TOO LONG	BASIC Interpreter	3-23
63	ILLEGAL LIBRARY SPECIFIED	MPE Commands	2-1
63	ILLEGAL RUN OUTPUT FILE	BASIC Interpreter	3-22
63	IMPOSSIBLE CONTEXT FOR '.'	FORTRAN	3-3
63	INTEGER ZERO TO POWER <=ZERO	BASIC Interpreter	3-25
63	NUM: RANGE AND CHAR ERROR	Compiler Library	5-16
63	UNBALANCED PARENTHESES	BASIC Compiler	3-21
63	UNDEFINED WORD IGNORED	COBOL	3-4
63	USER LACKS NON-SHARABLE DEVICE CAPABILITY	MPE Intrinsic	2-7
63	WRITE ERROR (errorcode) ON OUTPUT FILE	EDIT	5-2
64	BAD LIST FILE CHARACTERISTICS	BASIC Compiler	3-19
64	EOF OR I/O ERROR ON LIST FILE	MPE Intrinsic	2-8
64	EXTERNAL VARIABLE INCOMPATIBLE WITH GLOBAL VARIABLE	Segmenter	5-1
64	ILLEGAL FILE SIZE	BASIC Interpreter	3-25
64	IMPOSSIBLE CONTEXT FOR '%'	FORTRAN	3-3
64	INVALID EXIT ON RETURN	Compiler Library	5-16
64	LEVEL=77 MUST BE ELEMENTARY ITEM	COBOL	3-4
64	MISSING RIGHT PARENTHESIS	BASIC Compiler	3-21
64	POSITIONING ERROR ON WHILE FILE (errorcode)	EDIT	5-2
64	READ,READX	MPE Intrinsic	2-5
64	RUN OUTPUT FILE NOT TYPE ASCII	BASIC Interpreter	3-22

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64	UNABLE TO ACCESS TERMINAL FILE	MPE Commands	2-1
64	USER LACKS MULTI-RIN CAPABILITY	MPE Intrinsics	2-7
65	ILLEGAL RECORD SIZE	BASIC Interpreter	3-25
65	IMPOSSIBLE CONTEXT FOR '\$'	FORTRAN	3-3
65	INVALID SUBSCRIPT VALUE	Compiler Library	5-16
65	MISSING PROGRAM-ID PARAGRAPH	COBOL	3-4
65	NO OUTPUT ACCESS TO RUN OUTPUT FILE	BASIC Interpreter	3-22
65	NUMBER >255	BASIC Compiler	3-21
65	POSITION BEYOND EOF ON WHILE FILE	EDIT	5-2
65	PRINT	MPE Intrinsics	2-5
65	UNABLE TO OBTAIN CST ENTRIES	MPE Intrinsics	2-8
65	UNABLE TO OPEN LIST FILE	BASIC Compiler	3-19
66	FILE NOT ASCII	BASIC Interpreter	3-25
66	FILE-NAME MUST BE UNIQUE	COBOL	3-4
66	FREEDSEG REQUEST DENIED	EDIT	5-2
66	ILLEGAL DEVICE OR INVALID INPUT SPEED	MPE Commands	2-1
66	ILLEGAL RESTRICTION	BASIC Interpreter	3-23
66	INVALID SUBSTRING DESIGNATOR	Compiler Library	5-16
66	MISSING D-PART	BASIC Compiler	3-21
66	PLOTTER LIMIT SWITCH REACHED	MPE Intrinsics	2-7
66	PRINTOP	MPE Intrinsics	2-5
66	TOO MANY COMMON DATA LABELS	Segmenter	5-1
66	UNABLE TO OBTAIN PPROCESS DST ENTRY	MPE Intrinsics	2-8
66	UNABLE TO OPEN COMMAND FILE	BASIC Compiler	3-19
67	ATTEMPTING SYNTAX RECOVERY FROM PRECEDING SYMBOL	COBOL	3-4
67	BAD COMMAND FILE CHARACTERISTICS	BASIC Compiler	3-19
67	COMMON DECLARED WITH DIFFERENT SIZE	Segmenter	5-1
67	DTOI': ILLEGAL ARGUMENTS	Compiler Library	5-16
67	FRENAME ERROR ON TEXT FILE (errorcode)	EDIT	5-2
67	ILLEGAL DEVICE OR INVALID OUTPUT SPEED	MPE Commands	2-1
67	ILLEGAL FILE SPECIFICATION	BASIC Interpreter	3-22
67	ILLEGAL STATEMENT FOLLOWING THEN/ELSE	BASIC Interpreter	3-23
67	MISSING SFPAPATOR	BASIC Compiler	3-21
67	NO LOCK SPECIFICATION FOR FILE	BASIC Interpreter	3-25
67	PAPER TAPE ERROR	MPE Intrinsics	2-7
67	PRINTOREPLY	MPE Intrinsics	2-5
67	SYMBOLIC NAME EXCEEDS 255 CHARACTERS	FORTRAN	3-3
67	UNABLE TO OBTAIN MAIL DATA SEGMENT	MPE Intrinsics	2-8
68	ATTEMPT TO USE BLOCK DATA ON NON-EXISTENT COMMON	Segmenter	5-1
68	COMMAND	MPE Intrinsics	2-5
68	DTOD': ILLEGAL ARGUMENTS	Compiler Library	5-16
68	FRENAME ERROR ON KEEP FILE (errorcode)	EDIT	5-2
68	ILLEGAL INPUT LIST ITEM	BASIC Interpreter	3-23
68	MISSING LEFT PARENTHESIS	BASIC Compiler	3-21
68	MULTIPLE FILE LOCK	BASIC Interpreter	3-25
68	NESTED COPY STATEMENT IGNORED	COBOL	3-4
68	NUMBER EXCEEDS 255 CHARACTERS	FORTRAN	3-3
68	RESUME LABEL ILLEGAL IF BROKEN BY CONTROL-Y	BASIC Interpreter	3-22
68	SUBQUEUE IS LINEAR AND HAS NO QUANTUM	MPE Commands	2-1
68	SYSTEM INTERNAL ERROR	MPE Intrinsics	2-7
68	UNABLE TO CREATE LOAD PROCESS	MPE Intrinsics	2-8
68	UNABLE TO OPEN USL FILE	BASIC Compiler	3-19
69	ATTACHIO INPUT/OUTPUT ERROR	MPE Intrinsics	2-7
69	ATTEMPT TO USE BLOCK DATA ON INCOMPATIBLE COMMON	Segmenter	5-1
69	BAD USL FILE CHARACTERISTICS	BASIC Compiler	3-19
69	CAN'T PURGE	BASIC Interpreter	3-22
69	ILLEGAL READ ITEM LIST	BASIC Interpreter	3-23
69	INVALID C-SPECIFICATION	BASIC Compiler	3-21
69	OVERFLOW - RESULT = + OR - 32767	BASIC Interpreter	3-25
69	REFERENCE INCOMPLETE	COBOL	3-4
69	ROTD': ILLEGAL ARGUMENTS	Compiler Library	5-16
69	STRING LITERAL EXCEEDS 255 CHARACTERS	FORTRAN	3-3
69	UNABLE TO UNLOAD PREVIOUS PROCEDURE	EDIT	5-2
69	UNKNOWN SUBQUEUE	MPE Commands	2-1

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69	WHO	MPE Intrinsics	2-5
70	END OF FILE ON COMMAND FILE	BASIC Compiler	3-19
70	FILE OVERFLOW	BASIC Interpreter	3-22
70	HOLLERITH LITERAL EXCEEDS 255 CHARACTERS	FORTRAN	3-3
70	ILLEGAL DESTINATION VARIABLE	BASIC Interpreter	3-23
70	ILLEGAL STACK SIZE	Segmenter	5-1
70	INTEGER DIVISION BY ZERO	BASIC Interpreter	3-25
70	INVALID COMPLEX SPECIFICATION	BASIC Compiler	3-21
70	LTOD': ILLEGAL ARGUMENTS	Compiler Library	5-16
70	NAME MUST NOT QUALIFY ITSELF	COBOL	3-4
70	RIN CURRENTLY IN USE	MPE Commands	2-1
70	SEARCH	MPE Intrinsics	2-5
70	SEGMENT TABLE OVERFLOW	MPE Intrinsics	2-8
70	WARNING: WORK FILE IS TEMPORARY reason INSUFFICIEN	EDIT	5-2
71	CTOD': ILLEGAL ARGUMENTS	Compiler Library	5-16
71	END OF FILE ON USL FILE	BASIC Compiler	3-19
71	HOLLERITH LITERAL TOO SHORT	FORTRAN	3-3
71	ILLEGAL DL SIZE	Segmenter	5-1
71	ILLEGAL MAT STRING ASSIGNMENT	BASIC Interpreter	3-23
71	MYCOMMAND	MPE Intrinsics	2-5
71	NO INPUT ACCESS TO 'DUMP' FILE	BASIC Interpreter	3-22
71	REDEFINING ITEM SIZE MUST BE <=REDEFINED ITEM SIZE	COBOL	3-4
71	REPLICATOR = ZERO	BASIC Compiler	3-21
71	RIN NOT ALLOCATED TO THIS USER	MPE Commands	2-1
71	STRING OVERFLOW	BASIC Interpreter	3-25
71	TOO MANY FILES OPEN	MPE Intrinsics	2-7
71	UNABLE TO OBTAIN SUFFICIENT DL STORAGE	MPE Intrinsics	2-8
72	'REDIM' SUBSCRIPT = 0	BASIC Interpreter	3-25
72	ATTIO ERROR	MPE Intrinsics	2-8
72	END OF FILE ON FASTSAVE FILE	BASIC Compiler	3-19
72	ILLEGAL MAXDATA SIZE	Segmenter	5-1
72	INVALID FILE NUMBER	MPE Intrinsics	2-7
72	INVALID STRING SPECIFICATION	BASIC Compiler	3-21
72	NO OUTPUT ACCESS TO 'OUT' FILE	BASIC Interpreter	3-22
72	NON-OCTAL DIGIT	FORTRAN	3-3
72	RIN TABLE FULL	MPE Commands	2-1
72	SEQUENCE ERROR ON TEXTFILE	COBOL	3-4
72	SETJCV	MPE Intrinsics	2-5
73	'DUMP' FILE NOT BASIC FILE	BASIC Interpreter	3-22
73	BOUNDS VIOLATION	MPE Intrinsics	2-7
73	DIRECTORY ERROR	MPE Commands	2-1
73	END OF FILE ON TEMPORARY FILE	BASIC Compiler	3-19
73	EXPECTED FIELD WIDTH	FORTRAN	3-3
73	GETJCV	MPE Intrinsics	2-5
73	INCOMPATIBLE ARRAY DIMENSIONALITY	BASIC Interpreter	3-25
73	MISSING 'END#'	BASIC Interpreter	3-23
73	REPLICATOR >255	BASIC Compiler	3-21
73	SEQUENCE ERROR ON MASTFILE	COBOL	3-4
73	UNABLE TO OBTAIN VIRTUAL MEMORY	MPE Intrinsics	2-8
74	'OUT' FILE NOT TYPE ASCII	BASIC Interpreter	3-22
74	*CONTROL-Y BREAK	BASIC Interpreter	3-25
74	DBINARY	MPE Intrinsics	2-5
74	DIRECTORY I/O ERROR	MPE Intrinsics	2-8
74	END OF FILE ON LIST FILE	BASIC Compiler	3-19
74	EXPECTED FIELD VALUE	FORTRAN	3-3
74	ILLEGAL ITEM IN NUMERIC EXPRESSION	BASIC Interpreter	3-23
74	INVALID LIST FILE	MPE Commands	2-1
74	SEQUENCE ERROR ON NEWFILE	COBOL	3-4
74	STRING SPECIFICATION FOR NUMERIC ITEM	BASIC Compiler	3-21
75	COMMAND CONTINUATION NOT FOUND	COBOL	3-4
75	DASCII	MPE Intrinsics	2-5
75	I/O ERROR ON COMMAND FILE	BASIC Compiler	3-19
75	ILLEGAL 'ORMAT OR DATA ITEM IN 'DUMP' FILE	BASIC Interpreter	3-22
75	NUMERIC SPECIFICATION FOR STRING ITEM	BASIC Compiler	3-21

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75	PRINT I/O ERROR	MPE Intrinsic	2-8
75	RESTORE ERROR	BASIC Interpreter	3-25
75	UNDEFINED JOB NAME	MPE Commands	2-1
76	CAN'T CATALOG	BASIC Interpreter	3-22
76	I/O ERROR ON USL FILE	BASIC Compiler	3-19
76	ILLEGAL DLSIZE	MPE Intrinsic	2-8
76	IMPROPER COMMAND PARAMETER	COBOL	3-4
76	INTEGER CANNOT BE 0	FORTRAN	3-3
76	MESSAGE ROUTING ERROR	MPE Commands	2-1
76	QUIT	MPE Intrinsic	2-5
77	I/O ERROR ON TEMPORARY FILE	BASIC Compiler	3-19
77	INDEX NAME MUST BE UNIQUE	COBOL	3-4
77	INTEGER EXCEEDS CONTEXTUAL LIMITS	FORTRAN	3-3
77	NOWAIT I/O PENDING	MPE Intrinsic	2-7
77	OUT OF SPACE IN 'MPE' FOR 'FREQ' FILE	BASIC Interpreter	3-22
77	STACKDUMP	MPE Intrinsic	2-5
77	STRING CONSTANT >255 CHARACTERS	BASIC Interpreter	3-23
77	TOO MANY FILESETS	MPE Commands	2-1
78	I/O ERROR ON LIST FILE	BASIC Compiler	3-19
78	IMPROPER TAPE FORMAT	MPE Commands	2-1
78	INTEGER OVERFLOW	FORTRAN	3-3
78	NO/WAIT I/O FOR ANY FILE	MPE Intrinsic	2-7
78	NUMBER OVER 255 AFTER '	BASIC Interpreter	3-23
78	SETDUMP	MPE Intrinsic	2-5
78	TABLE HAS MORE THAN 12 INDEX NAMES	COBOL	3-4
79	'\$' MISSING FROM STRING-VALUED PREDEFINED FUNCTION	BASIC Interpreter	3-23
79	EXPECTED EXPONENT VALUE	FORTRAN	3-3
79	I/O ERROR ON UNKNOWN FILE	BASIC Compiler	3-19
79	ILLEGAL RECORD SIZE	BASIC Interpreter	3-22
79	NO/WAIT I/O FOR SPECIFIED FILE	MPE Intrinsic	2-7
79	NON-EXISTENT USER	MPE Commands	2-1
79	RESETDUMP	MPE Intrinsic	2-5
79	THE FOLLOWING SORT/SEARCH KEY IS UNDEFINED	COBOL	3-4
80	FLOATING LITERAL UNDER/OVERFLOW	FORTRAN	3-3
80	INSUFFICIENT STORAGE	Segmenter	5-1
80	LOADPROC	MPE Intrinsic	2-5
80	OUT OF RANGE + OR - 1E77 USED	BASIC Interpreter	3-22
80	PREDEFINED FUNCTION PARAMETER OF WRONG TYPE	BASIC Interpreter	3-23
80	PROGRAM ALREADY ALLOCATED	MPE Intrinsic	2-8
80	SPOOFLE I/O ERROR	MPE Commands	2-1
80	SPOOFLE SIZE EXCEEDS CONFIGURATION	MPE Intrinsic	2-7
80	THE FOLLOWING ACTUAL KEY IS UNDEFINED	COBOL	3-4
80	UNABLE TO CLOSE COMMAND FILE	BASIC Compiler	3-19
81	ILLEGAL PATCH	Segmenter	5-1
81	ILLEGAL PROGRAM ALLOCATION	MPE Intrinsic	2-8
81	IMPROPER COMPLEX LITERAL	FORTRAN	3-3
81	NO "SPOOL" CLASS IN SYSTEM	MPE Intrinsic	2-7
81	OUT OF RANGE + OR - 1E-77 USED	BASIC Interpreter	3-22
81	PREDEFINED FUNCTION HAS TOO MANY PARAMETERS	BASIC Interpreter	3-23
81	STACK TOO SMALL	MPE Commands	2-1
81	THE FOLLOWING DEPENDING-ON DATA-NAME IS UNDEFINED	COBOL	3-4
81	UNABLE TO CLOSE USL FILE	BASIC Compiler	3-19
81	UNLOADPROC	MPE Intrinsic	2-5
82	FACILITY NOT ENABLED	MPE Commands	2-1
82	INITUSLF	MPE Intrinsic	2-5
82	INSUFFICIENT SPACE FOR SPOOFLE	MPE Intrinsic	2-7
82	PREDEFINED FUNCTION HAS TOO FEW ARGUMENTS	BASIC Interpreter	3-23
82	PROGRAM NOT ALLOCATED	MPE Intrinsic	2-8
82	RENAMING AN ITEM NOT YET DEFINED	COBOL	3-4
82	UNABLE TO CLOSE FASTSAVE FILE	BASIC Compiler	3-19
82	UNABLE TO OPEN SCRATCH FILE	Segmenter	5-1
83	ADJUSTSLF	MPE Intrinsic	2-5
83	BINARY FILE ILLEGAL	MPE Commands	2-1

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83	I/O ERROR ON SPOOFLE	MPE Intrinsic	2-7
83	ILLEGAL PARAMETER IN 'UND' FUNCTION	BASIC Interpreter	3-23
83	ILLEGAL PROGRAM DEALLOCATION	MPE Intrinsic	2-8
83	RENAMING ITEM WITH LEVEL 01, 66, 77, OR 88	COBOL	3-4
83	UNABLE TO CLOSE LIST FILE	BASIC Compiler	3-19
83	UNABLE TO OPEN LIST FILE	Segmenter	5-1
84	DEVICE UNAVAILABLE FOR SPOOFLE	MPE Intrinsic	2-7
84	EXPANDUSLF	MPE Intrinsic	2-5
84	MISSING END LINE	FORTRAN	3-3
84	NUMBER OUT OF RANGE	BASIC Interpreter	3-23
84	PROCEDURE ALREADY ALLOCATED	MPE Intrinsic	2-8
84	RENAMING AN ITEM HAVING A RELATIVE WITH OCCURS CLA	COBOL	3-4
84	UNABLE TO CLOSE UNKNOWN FILE	BASIC Compiler	3-19
84	UNEXPECTED I/O ERROR	Segmenter	5-1
85	ILLEGAL NUMBER	BASIC Interpreter	3-23
85	ILLEGAL PROCEDURE ALLOCATION	MPE Intrinsic	2-8
85	OPERATION INCONSISTENT WITH SPOOLING	MPE Intrinsic	2-7
85	RENAME CLAUSE NON-66 LEVEL	COBOL	3-4
85	UNEXPECTED CONTINUATION LINE	FORTRAN	3-3
86	I/O ERROR ON USER FILE	BASIC Compiler	3-21
86	ITEM DIFFERENT FROM CLASS SPECIFICATION	Segmenter	5-1
86	LONG FORM ILLEGAL IN COMPLEX CONSTANT	BASIC Interpreter	3-23
86	NONEXISTENT SPOOFLE	MPE Intrinsic	2-7
86	PROCEDURE NOT ALLOCATED	MPE Intrinsic	2-8
86	RENAMED START-POINT >=END-POINT	COBOL	3-4
87	BAD SPOOFLE BLOCK	MPE Intrinsic	2-7
87	CONDITION-NAME WITHOUT VARIABLE	COBOL	3-4
87	ILLEGAL PROCEDURE DEALLOCATION	MPE Intrinsic	2-8
87	ILLEGAL STATEMENT NUMBER	BASIC Interpreter	3-23
87	ITEM NOT PRIMARY ENTRY POINT	Segmenter	5-1
87	RESERVED TOKEN NOT RECOGNIZED	FORTRAN	3-3
87	UNABLE TO OPEN LIST FILE	BASIC Compiler	3-21
88	CANNOT RECOGNIZE KEYWORD	FORTRAN	3-3
88	EXPECTING NUMERIC LITERAL OR FIGURATIVE ZERO	COBOL	3-4
88	ILLEGAL TYPE SPECIFIER	BASIC Interpreter	3-23
88	INCOMPATIBLE ITEM TYPE	Segmenter	5-1
88	LIST FILE NOT TYPE ASCII	BASIC Compiler	3-21
89	CANNOT CLASSIFY STATEMENT	FORTRAN	3-3
89	EXPECTING NON-NUMERIC LITERAL OR FIGURATIVE CONSTA	COBOL	3-4
89	INVALID CLASS SPECIFICATION	Segmenter	5-1
89	POWER FAILURE	MPE Intrinsic	2-7
89	UNABLE TO OPEN INPUT FILE	BASIC Compiler	3-21
90	DATA BASE IN USE	RPG	3-17
90	EXCLUSIVE VIOLATION: FILE BEING ACCESSED	MPE Intrinsic	2-7
90	INPUT FILE NOT TYPE ASCII	BASIC Compiler	3-21
90	OUT OF MEMORY	BASIC Interpreter	3-23
90	RANGE OF VALUES NOT ALLOWED	COBOL	3-4
91	DATA BASE OPEN EXCLUSIVELY	RPG	3-17
91	EXCLUSIVE VIOLATION: FILE ACCESSED EXCLUSIVELY	MPE Intrinsic	2-7
91	I/O ERROR ON LIST FILE	BASIC Compiler	3-21
91	OPTIONAL FILE MUST BE SEQUENTIAL	COBOL	3-4
91	STATEMENT OUT OF POSITION	FORTRAN	3-3
92	DUMMY NAME NOT UNIQUE	FORTRAN	3-3
92	I/O ERROR ON INPUT FILE	BASIC Compiler	3-21
92	LOCKWORD VIOLATION	MPE Intrinsic	2-7
92	UNABLE TO LOCATE LIBRARY NAME ON COPYLIB	COBOL	3-4
93	ACTUAL KEY REQUIRED IN RANDOM ACCESS	COBOL	3-4
93	I/O ERROR ON SSTDLIST	BASIC Compiler	3-21
93	IMPROPER DUMMY ARGUMENT	FORTRAN	3-3
93	SECURITY VIOLATION	MPE Intrinsic	2-7
93	SECURITY VIOLATION	RPG	3-17
93	UNABLE TO LOCATE ITEM	Segmenter	5-1
94	ACTUAL KEY NOT ALLOWED IN SEQUENTIAL ACCESS	COBOL	3-4
94	ARGUMENT ADDRESSIBILITY EXCEEDED	FORTRAN	3-3

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94	NUMERIC FILE DATA FOR STRING ITEM	BASIC Compiler	3-21
94	USER IS NOT CREATOR	MPE Intrinsic	2-7
95	"BROKEN" TERMINAL READ	MPE Intrinsic	2-7
95	NUMERIC LITERAL AND ITS PICTURE DISAGREE	COBOL	3-4
95	STRING FILE DATA FOR NUMERIC ITEM	BASIC Compiler	3-21
95	TOO MANY ALTERNATE RETURNS	FORTRAN	3-3
96	ILLEGAL CHAR. IN NUMERIC LITERAL	COBOL	3-4
96	IMPROPER TYPE CONSTRUCT	FORTRAN	3-3
96	MISCELLANEOUS DISC INPUT/OUTPUT ERROR	MPE Intrinsic	2-7
96	STRING DATA FOR NUMERIC ITEM	BASIC Compiler	3-21
97	COMMENT MUST BE CONTAINED ON ONE LINE OF THE COMMA	COBOL	3-4
97	CONTROL-Y REQUESTED BUT NO CONTROL-Y PIN	MPE Intrinsic	2-7
97	IMPROPER INITIAL LETTER CONSTRUCT	FORTRAN	3-3
97	STRING UPDATE ITEM FOR NUMERIC DATA	BASIC Compiler	3-21
98	INPUT/OUTPUT READ TIME OVERFLOW	MPE Intrinsic	2-7
98	JUSTIFIED CLAUSE IN NUMERIC OR NUMERIC-EDITED ITEM	COBOL	3-4
99	BOT FOUND WHILE REQUESTING BSR OR BSF	MPE Intrinsic	2-7
99	DEBUG	MPE Intrinsic	2-5
99	ILLEGAL FORMAL FILE DESIGNATOR	COBOL	3-4
99	SUBROUTINE CANNOT BE TYPED	FORTRAN	3-3
100		IMAGE	4-6
100		CONSOLE	7-7
100	CREATE	MPE Intrinsic	2-5
100	DUPLICATE PERMANENT FILE NAME	MPE Intrinsic	2-7
100	FCHECK ERROR	APL	3-32
100	FILE SYSTEM ERROR	MPE Commands	2-1
100	ILLEGAL ARITHMETIC OPERAND	COBOL	3-4
100	NO MANUAL ENTRY FOR DETAIL	RPG	3-17
100	SYMBOLIC NAME TYPED INCONSISTENTLY	FORTRAN	3-3
101		DS	6-12
101		EMULATOR	6-4
101		CONSOLE	7-7
101	DUPLICATE TEMPORARY FILE NAME	MPE Intrinsic	2-7
101	FCHECK ERROR	APL	3-32
101	ILLEGAL ARITHMETIC REPLACEMENT IDENTIFIER	COBOL	3-4
101	ILLEGAL FORMAT CHARACTER	Compiler Library	5-16
101	MORE THAN ONE HEADER CARD, SPECIFICATION DROPPED	RPG	3-7
101	UNIT NOT READY	MPE Commands	2-1
102		DS	6-12
102		EMULATOR	6-4
102		CONSOLE	7-7
102	CAN'T CLOSE FROMFILE	FCOPY	5-3
102	COLUMNS 7-14 NOT BLANK, ASSUME BLANK	RPG	3-7
102	COMPOSITE OF OPERANDS >18 DIGITS	COBOL	3-4
102	DYNAMIC BOUND DIMENSIONED	FORTRAN	3-3
102	FCHECK ERROR	APL	3-32
102	I/O ERROR ON DIRECTORY	MPE Intrinsic	2-7
102	KILL	MPE Intrinsic	2-5
102	NO WRITE RING	MPE Commands	2-1
102	UNDEFINED OPTION ON UNIT=xx	Compiler Library	5-16
103		DS	6-12
103		EMULATOR	6-4
103		CONSOLE	7-7
103	CAN'T CLOSE TOFILE	FCOPY	5-3
103	COLUMN 15 (DEBUG OPTION) NOT BLANK OR 1, ASSUME 1	RPG	3-7
103	ILLEGAL PROCEDURE-NAME	COBOL	3-4
103	INCONSISTENT FILE OPERATION	MPE Commands	2-1
103	NESTING TOO DEEP	Compiler Library	5-16
103	PERMANENT FILE DIRECTORY OVERFLOW	MPE Intrinsic	2-7
103	PROCEDURE DIMENSIONED	FORTRAN	3-3
103	SUSPEND	MPE Intrinsic	2-5
104		DS	6-12
104		EMULATOR	6-4
104		CONSOLE	7-7

CODE	MESSAGE	SYSTEM	TABLE
104	ACTIVATE	MPE Intrinsic	2-5
104	ARRAY REDUNDANTLY DIMENSIONED	FORTRAN	3-3
104	CAN'T SAVE NEW TOFILE	FCOPY	5-3
104	COLUMNS 16-20 NOT BLANK, ASSUME BLANK	RPG	3-7
104	DEFINITION INCONSISTENT WITH REFERENCE	COBOL	3-4
104	FCHECK ERROR	APL	3-32
104	PRIVILEGED FILE VIOLATION	MPE Commands	2-1
104	STRING MISMATCH	Compiler Library	5-16
104	TEMPORARY FILE DIRECTORY OVERFLOW	MPE Intrinsic	2-7
105		DS	6-12
105		EMULATOR	6-4
105		CONSOLE	7-7
105	BAD INPUT CHARACTER	Compiler Library	5-16
105	CAN'T OPEN FROM FILE	FCOPY	5-3
105	COLUMN 21 (INVERTED PRINT) NOT BLANK,I,J OR D, ASS	RPG	3-7
105	DUPLICATE PROCEDURE NAMES	COBOL	3-4
105	EXPECTED BOUND	FORTRAN	3-3
105	FCHECK ERROR	APL	3-32
105	GETORIGIN	MPE Intrinsic	2-5
105	ILLEGAL VARIABLE BLOCK STRUCTURE	MPE Intrinsic	2-7
105	INSUFFICIENT DISC SPACE	MPE Commands	2-1
106		CONSOLE	7-7
106	ARRAY EXCEEDS 32767 ELEMENTS	FORTRAN	3-3
106	CAN'T OPEN TOFILE	FCOPY	5-3
106	COLUMNS 22-25 NOT BLANK, ASSUME BLANK	RPG	3-7
106	EXTENT SIZE EXCEEDS MAXIMUM	MPE Intrinsic	2-7
106	FCHECK ERROR	APL	3-32
106	MAIL	MPE Intrinsic	2-5
106	NON-EXISTENT ACCOUNT	MPE Commands	2-1
106	NUMBER OUT OF RANGE	Compiler Library	5-16
106	SECTION ILLEGAL IN PROGRAM	COBOL	3-4
107		CONSOLE	7-7
107	COLUMN 26 (ALTERNATE COLLATING SEQUENCE) NOT BLANK	RPG	3-7
107	FCHECK ERROR	APL	3-32
107	FORMAT BEYOND RECORD	Compiler Library	5-16
107	ILLEGAL PRIORITY NUMBER	COBOL	3-4
107	NON-EXISTENT GROUP	MPE Commands	2-1
107	NUMBER OF ROUNDS EXCEEDS 255	FORTRAN	3-3
107	OFFSET TO DATA >255	MPE Intrinsic	2-7
107	SENDMAIL	MPE Intrinsic	2-5
107	VERIFY OR COMPARE OPTION: CAN'T GET READ ACCESS TO	FCOPY	5-3
108		CONSOLE	7-7
108	BUFFER OVERFLOW	Compiler Library	5-16
108	COLUMNS 27-33 NOT BLANK, ASSUME BLANK	RPG	3-7
108	DEFECTIVE FILE LABEL ON DISC	MPE Intrinsic	2-7
108	DYNAMIC STRUCTURE IN COMMON	FORTRAN	3-3
108	ERROR IN CALLING FGETINFO FOR FROMFILE	FCOPY	5-3
108	FCHECK ERROR	APL	3-32
108	ILLEGAL PROGRAM CONSTRUCT	COBOL	3-4
108	NON-EXISTENT FILE	MPE Commands	2-1
108	RECEIVEMAIL	MPE Intrinsic	2-5
109		CONSOLE	7-7
109	COLUMN 34 (BINARY SEARCH OPTION) NOT BLANK OR B, A	RPG	3-7
109	DIRECT ACCESS OVERFLOW ON UNIT #xx	Compiler Library	5-16
109	DUMMY NAME IN COMMON	FORTRAN	3-3
109	ERROR IN CALLING FGETINFO FOR TOFILE	FCOPY	5-3
109	FATHER	MPE Intrinsic	2-5
109	FCHECK ERROR	APL	3-32
109	ILLEGAL STATEMENT FORM	COBOL	3-4
109	INVALID FILE NAME	MPE Commands	2-1
110		CONSOLE	7-7
110	ATTEMPT TO SAVE PERMANENT FILE AS TEMPORARY	MPE Intrinsic	2-7
110	COLUMNS 35-39 NOT BLANK, ASSUME BLANK	RPG	3-7
110	DEVICE UNAVAILABLE	MPE Commands	2-1

CODE	MESSAGE	SYSTEM	TABLE
110	FCHECK ERROR	APL	3-32
110	FILE NOT IN TABLE FOR UNIT #xx	Compiler Library	5-16
110	GETPROCINFO	MPE Intrinsic	2-5
110	IGNERR OPTION: FROMFILE NOT TAPE	FCOPY	5-3
110	ITEM IN COMMON TWICE	FORTRAN	3-3
110	SECTION IS ILLEGAL REFERENCE	COBOL	3-4
110	SEGMENT CUPRENTLY LOADED	Segmenter	5-1
111		CONSOLE	7-7
111	CAN'T GET READ ACCESS TO FROMFILE	FCOPY	5-3
111	COLUMN 40 (SIGN CHECK) NOT BLANK, N,I,O,B, OR S, A	RPG	3-7
111	COMMON BLOCK NAME ALSO PROCEDURE NAME	FORTRAN	3-3
111	FILE SYSTEM ERROR ON UNIT #xx	Compiler Library	5-16
111	INVALID DEVICE SPECIFICATION	MPE Commands	2-1
111	SEGMENT CONTAINS EXTERNAL VARIABLE	Segmenter	5-1
111	TABLE-REFERENCE MUST BE INDEXED OR SUBSCRIPTED	COBOL	3-4
111	USER LACKS SAVE FILE CAPABILITY	MPE Intrinsic	2-7
112	CAN'T GET WRITE ACCESS TO TOFILE	FCOPY	5-3
112	COLUMN 41 (1P FORMS POSITIONING) NOT BLANK OR 1, A	RPG	3-7
112	END OF FILE DETECTED ON UNIT #xx	Compiler Library	5-16
112	GETPROCID	MPE Intrinsic	2-5
112	NO PASSED FILE	MPE Commands	2-1
112	NUMBER OF PARAMETERS >60	COBOL	3-4
112	PROCEDURE NAME IN COMMON	FORTRAN	3-3
112	SEGMENT CONTAINS COMMON	Segmenter	5-1
113	CHARACTER FUNCTION HAS DYNAMIC LENGTH	FORTRAN	3-3
113	COLUMN 42 (INDICATOR INITIALIZATION) NOT BLANK OR	RPG	3-7
113	EXCLUSIVE VIOLATION	MPE Commands	2-1
113	FORMAL PARAMETER NOT IN LINKAGE SECTION	COBOL	3-4
113	INVALID FILE NUMBER FOR UNIT #xx	Compiler Library	5-16
113	SEGMENT CONTAINS LOGICAL UNITS	Segmenter	5-1
113	SKIPEOF OPTION: FROMFILE NOT TAPE	FCOPY	5-3
114	COLUMN 43 (FILE TRANSLATION) NOT BLANK, F OR O, AS	RPG	3-7
114	ILLEGAL PARAMETER	COBOL	3-4
114	LOCKWORD VIOLATION	MPE Commands	2-1
114	SIMPLE VARIABLE OR ARRAY EXTERNALLED	FORTRAN	3-3
114	SKIPEOF OPTION: TOFILE NOT TAPE	FCOPY	5-3
115	COLUMNS 44-46 NOT BLANK, ASSUME BLANK	RPG	3-7
115	SECURITY VIOLATION	MPE Commands	2-1
115	SUBSET OPTION: STRING FALLS OUTSIDE OF FROMFILE RE	FCOPY	5-3
116	CAN'T GET LARGE ENOUGH BUFFER	FCOPY	5-3
116	COLUMN 47 (SKIP TO CHANNEL 1 SUPPRESS) NOT BLANK O	RPG	3-7
116	DUPLICATE NAME	MPE Commands	2-1
116	DYNAMIC STRUCTURE IN EQUATE	FORTRAN	3-3
116	ENTRY NOT ALLOWED IN DECLARATIVES PORTION	COBOL	3-4
117	ALTER DOES NOT REFERENCE ALTERABLE GO TO	COBOL	3-4
117	COLUMNS 48-51 NOT BLANK, ASSUME BLANK	RPG	3-7
117	DIRECTORY OVERFLOW	MPE Commands	2-1
117	DUMMY NAME IN EQUATE	FORTRAN	3-3
117	SKIPEOF OPTION: ERROR WHILE SKIPPING IN FROMFILE	FCOPY	5-3
118		CONSOLE	7-7
118	ATTEMPT TO SAVE SYSTEM FILE AS JOB TEMPORARY	MPE Commands	2-1
118	COLUMN 52 (CROSS REFERENCE) NOT BLANK OR X, ASSUME	RPG	3-7
118	PARAMETER MUST START AT WORD BOUNDARY	COBOL	3-4
118	PROCEDURE NAME IN EQUATE	FORTRAN	3-3
118	SKIPEOF OPTION: ERROR WHILE SKIPPING IN TOFILE	FCOPY	5-3
119		CONSOLE	7-7
119	COLUMN 53 (CARRIAGE CONTROL TYPE) NOT BLANK OR L,	RPG	3-7
119	IN USE: CAN'T BE PURGED	MPE Commands	2-1
119	SUBSET OPTION: ERROR WHILE SPACING IN FROMFILE	FCOPY	5-3
119	UNDEFINED LOCAL PARAGRAPHS	COBOL	3-4
120	AUX USL FILE NOT DESIGNATED	Segmenter	5-1
120	COLUMN 54 (TEXT SEQUENCE CHECK) NOT BLANK, N OR S,	RPG	3-7
120	CREATOR CONFLICT	MPE Commands	2-1
120	DEPENDING-ON IDENTIFIER IS NOT INTEGER	COBOL	3-4



CODE	MESSAGE	SYSTEM	TABLE
120	DYNAMIC STRUCTURE IN DATA	FORTRAN	3-3
120	GETPRIORITY	MPE Intrinsic	2-5
120	SUBSET OPTION: SUBSET STARTS OVER EOF BOUNDARY	FCOPY	5-3
121	COLUMN 55 (RUN TIME ERROR CONTROL) NOT BLANK, N OR	RPG	3-7
121	DUMMY NAME IN DATA	FORTRAN	3-3
121	EXIT STATEMENT MUST BE ONLY ONE IN PARAGRAPH	COBOL	3-4
121	GROUP FILESPACE EXCEEDED	MPE Commands	2-1
122	ACCOUNT FILESPACE EXCEEDED	MPE Commands	2-1
122	COLUMN 56 (RUN TIME ERROR OPTION) NOT BLANK OR 1-5	RPG	3-7
122	ILLEGAL IDENTIFIER IN CORRESPONDING	COBOL	3-4
122	PROCEDURE NAME IN DATA	FORTRAN	3-3
123	COLUMN 57 (RUN TIME ERROR OPTION) NOT BLANK OR 1-5	RPG	3-7
123	COMMON ITEM IN DATA	FORTRAN	3-3
123	NO PAIRS FOUND IN CORRESPONDING	COBOL	3-4
123	SUBSET OPTION: THIS INPUT DEVICE DOES NOT BACKSPAC	FCOPY	5-3
124		CONSOLE	7-7
124	COLUMN 58 (RUN TIME ERROR OPTION) NOT BLANK OR 1-5	RPG	3-7
124	EXPECTED INITIAL VALUE	FORTRAN	3-3
124	ILLEGAL CLASS-CONDITION IDENTIFIER	COBOL	3-4
124	READ ERROR IN FROMFILE AT RECORD recnum	FCOPY	5-3
125		CONSOLE	7-7
125	COLUMN 59 (RUN TIME ERROR OPTION) NOT BLANK OR 0 0	RPG	3-7
125	ILLEGAL ABBREVIATED RELATION CONDITION	COBOL	3-4
125	INITIAL VALUE TYPE IMPROPER	FORTRAN	3-3
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246	ILLEGAL PAIR OF OPERANDS IN SET STATEMENT	COBOL	3-4
247		DS	6-7
247	ILLEGAL IDENTIFIER IN SET STATEMENT	COBOL	3-4
247	ILLEGAL OPEN MODE IN COLUMN 66, ASSUME 2	RPG	3-8
248		DS	6-7
248		CONSOLE	7-8
248	ILLEGAL INPUT/OUTPUT MODE IN COLUMN 67	RPG	3-8
248	VALUE CLAUSE IN AN ITEM SUBORDINATE TO AN OCCURS T	COBOL	3-4
249		DS	6-7
249		CONSOLE	7-8
249	NO OF INDICES DOES NOT MATCH NO OF DIMENSIONS	COBOL	3-4
249	RECORD ADDRESS TYPE IN COLUMN 31 MUST BE 'A', 'P',	RPG	3-8
250		DS	6-7
250		CONSOLE	7-8
250	ILLEGAL NAME OF TABLE ELEMENT	COBOL	3-4
250	RECORD ADDRESS TYPE IN COLUMN 31 MUST BE 'I' FOR D	RPG	3-8
250	SEGMENTER ERROR	MPE Commands	2-1
251		DS	6-7
251		CONSOLE	7-8
251	ILLEGAL SUBSCRIPT OR INDEX	COBOL	3-4
251	MODE OF PROCESSING IN COLUMN 28 MUST BE 'R' FOR DI	RPG	3-8
252		DS	6-7
252		CONSOLE	7-8
252	NUMERIC USAGE WITH NON-NUMERIC PIC. PIC 9 IS ASSUM	COBOL	3-4
252	RECORD ADDRESS TYPE IN COLUMN 31 MUST BE BLANK FOR	RPG	3-8
253		DS	6-7
253	MIXED SUBSCRIPTING AND INDEXING	COBOL	3-4
253	MODE OF PROCESSING IN COLUMN 28 MUST BE SEQUENTIAL	RPG	3-8
254		DS	6-7
254	L IN COLUMN 28 CAN ONLY BE USED WITH S, B, C OR R	RPG	3-8
254	SUBSCRIPT MUST BE ONE-WORD INTEGER > 0	COBOL	3-4
255		DS	6-7
255	DEVICE NAME MORE THAN 8 CHARACTERS	COBOL	3-4
255	ITEM AND/OR ITEMXX NAME MISSING FOR 'L' IN COLUMN	RPG	3-8
256	ITEM NAME MISSING FOR INPUT/OUTPUT MODE S,6,C, OR	RPG	3-8
257	ITEM XX MISSING FOR INPUT/OUTPUT MODE S OR B FOR P	RPG	3-8
259	DATA BASE NAME MISSING FOR PREVIOUS FILE	RPG	3-8
260		CONSOLE	7-8
261		CONSOLE	7-8
270		CONSOLE	7-8

CODE	MESSAGE	SYSTEM	TABLE
290		CONSOLE	7-8
299		CONSOLE	7-8
300		IMAGE	4-6
300		CONSOLE	7-9
300	AUTOMATIC MASTER IS FULL	RPG	3-17
301		CONSOLE	7-9
301	READ ERROR IN FROMFILE AT RECORD recnum	FCOPY	5-3
301	TO FILENAME (COLUMN 19-26) INVALID OR UNDEFINED-RE	RPG	3-9
302		CONSOLE	7-9
302	FROM FILENAME (COLUMN 11-18) INVALID OR UNDEFINED-	RPG	3-9
302	VERIFY OPTION: RAN OUT F VERIFY ERRORS AT FROMFILE	FCOPY	5-3
303		CONSOLE	7-9
303	E NOT SPECIFIED ON FILE DESCRIPTIONS FOR FROM FILE	RPG	3-9
304		CONSOLE	7-9
304	COMPARE OPTION: RAN OUT OF COMPARE ERRORS AT FROMF	FCOPY	5-3
304	FROM FILE IS NOT AN INPUT FILE, RECORD IGNORED	RPG	3-9
305		CONSOLE	7-9
305	CHAINING OR RECORD ADDRESS FILE AND COLS. 33-57 NO	RPG	3-9
306	CHAINING FIELD NUMBER (COLUMN 10) NOT 1-9 - RECORD	RPG	3-9
307	CHAINING AND C NOT SPECIFIED IN COLUMN 9 - ASSUME	RPG	3-9
308	CHAINING CODE AND FROM FILE PREVIOUSLY SPECIFIED -	RPG	3-9
309	TO FILE NOT A CHAINED OR RANDOM FILE-RECORD IGNORE	RPG	3-9
310		CONSOLE	7-9
310	CONVERSION ROUTINE NAME (COLUMNS 27-32) INVALID -	RPG	3-9
311		CONSOLE	7-9
311	CONVERSION ROUTINE (COLUMNS 27-32) PREVIOUSLY DEFI	RPG	3-9
312		CONSOLE	7-9
312	NOT ASSIGNED	RPG	3-9
313		CONSOLE	7-9
313	RECORD ADDRESS FILE PREVIOUSLY SPECIFIED ON EXTENS	RPG	3-9
314	TO FILENAME (COLUMNS 19-26) MISSING FOR CHAINING O	RPG	3-9
315	TABLE/ARRAY NAME (COLUMNS 27-32) PREVIOUSLY DEFINE	RPG	3-9
316	ENTRIES PER RECORD (COLUMNS 33-35) INVALID - ASSUM	RPG	3-9
317	ENTRIES PER TABLE/ARRAY (COLUMNS 36-39) INVALID -	RPG	3-9
318	P/B/L/R FIELD (COLUMN 43) INVALID - BLANK ASSUMED	RPG	3-9
319	FIELD SIZE OF 1 NOT ALLOWED WITH L OR R SPECIFIED	RPG	3-9
320	FIELD SIZE (COLUMNS 40-42) BLANK OR INVALID - 1 AS	RPG	3-9
321	DECIMAL POSITIONS (COLUMN 44) INVALID - ASSUME NUM	RPG	3-9
322	P,B,L OR R SPECIFIED (COLUMN 43) AND BLANK DECIMAL	RPG	3-9
323	DECIMAL POSITIONS (COLUMN 44) GREATER THAN NUMBER	RPG	3-9
324	SEQUENCE (COLUMN 45) NOT BLANK, A OR D-A ASSUMED	RPG	3-9
325	FIELD NAME (COLUMNS 27-32) BLANK OR INVALID - ENTR	RPG	3-9
326	BINARY FIELD NOT LENGTH 5 OR 10	RPG	3-9
327	TO FILE (COLUMNS 19-26) NOT AN OUTPUT FILE - TO FI	RPG	3-9
328	P/B/L/R FIELD (COLUMN 55) INVALID - BLANK ASSUMED	RPG	3-9
329	FIELD SIZE OF 1 NOT ALLOWED WITH L OR R SPECIFIED	RPG	3-9
330	FIELD SIZE (COLUMNS 52-54) BLANK OR INVALID - 1 AS	RPG	3-9
331	ALPHA FIELD SIZE GREATER THAN 256 - ASSUME 256	RPG	3-9
332	NUMERIC FIELD SIZE GREATER THAN 15 - ASSUME 15	RPG	3-9
333	DECIMAL POSITIONS (COLUMN 56) INVALID - ASSUME NUM	RPG	3-9
334	P,B,L OR R SPECIFIED (COLUMN 55) AND BLANK DECIMAL	RPG	3-9
335	DECIMAL POSITIONS (COLUMN 56) GREATER THAN NUMBER	RPG	3-9
336	SEQUENCE (COLUMN 57) NOT BLANK, A, OR D-A ASSUMED	RPG	3-9
337	FIELD NAME (COLUMNS 46-51) BLANK OR INVALID - ENTR	RPG	3-9
338	TABLE/ARRAY NAME (COLUMNS 46-51) PREVIOUSLY DEFINE	RPG	3-9
339	NO EXTENSION SPECIFICATION FOR FILE WITH E IN COLU	RPG	3-9
340	ENTRIES PER RECORD BLANK AND FILENAME SPECIFIED -	RPG	3-9
341	EXTENSION SPECIFICATION BLANK - IGNORE RECORD	RPG	3-9
342	ENTRIES PER RECORD GREATER THAN TABLE SIZE-ASSUME	RPG	3-9
343	FROM FILE RECORD LENGTH NOT LARGE ENOUGH TO HOLD E	RPG	3-9
344	TO FILE RECORD LENGTH NOT LARGE ENOUGH TO HOLD ENT	RPG	3-9
345	TABLE FILE CANNOT BE A SPECIAL FILE	RPG	3-9
350		CONSOLE	7-9
351		CONSOLE	7-9

CODE	MESSAGE	SYSTEM	TABLE
352		CONSOLE	7-9
353		CONSOLE	7-9
360		CONSOLE	7-9
361		CONSOLE	7-9
362		CONSOLE	7-9
363		CONSOLE	7-9
364		CONSOLE	7-9
365		CONSOLE	7-9
366		CONSOLE	7-9
370		CONSOLE	7-9
371		CONSOLE	7-9
372		CONSOLE	7-9
400		CONSOLE	7-10
400	UNABLE TO OPEN FILE filename	COBOL	3-4
401		CONSOLE	7-10
401	INVALID, MISSING, OR UNDEFINED FILENAME IN COL. 7-	RPG	3-10
401	UNABLE TO USE FILE filename	COBOL	3-4
402		CONSOLE	7-10
402	END-OF-FILE ON FILE filename	COBOL	3-4
402	FILENAME IN COL. 7-14 DOES NOT REFER TO 'L' EXTENS	RPG	3-10
403		CONSOLE	7-10
403	FORM LENGTH ENTRY IN COL. 15-17 INVALID OR GREATER	RPG	3-10
403	READ/WRITE FAILURE ON filename	COBOL	3-4
404		CONSOLE	7-10
404	INVALID OR MISSING ENTRY IN COL. 18-19, ASSUME FL.	RPG	3-10
404	UNABLE TO CLOSE FILE filename	COBOL	3-4
405		CONSOLE	7-10
405	OVERFLOW LINE ENTRY IN COL. 20-22 INVALID OR GREAT	RPG	3-10
406		CONSOLE	7-10
406	INVALID OR MISSING OL ENTRY IN COL. 23-24, ASSUME	RPG	3-10
407		CONSOLE	7-10
407	OVERFLOW LINE IN COL. 20-22 EXCEEDS FORM LENGTH IN	RPG	3-10
408		CONSOLE	7-10
408	LINE NUMBER ENTRY IS INVALID, DROP LINE AND CHANNE	RPG	3-10
409		CONSOLE	7-10
409	CHANNEL NUMBER ENTRY IS INVALID, DROP LINE AND CHA	RPG	3-10
410		CONSOLE	7-10
410	CHANNEL 01 AND/OR CHANNEL 12 IS NOT DEFINED	RPG	3-10
411		CONSOLE	7-10
411	MULTIPLE LINE COUNTER SPECIFICATION FOR SAME FILE	RPG	3-10
412		CONSOLE	7-10
412	COLUMNS 25-74 SHOULD BE BLANK	RPG	3-10
413		CONSOLE	7-10
414		CONSOLE	7-10
420		CONSOLE	7-10
421		CONSOLE	7-10
422		CONSOLE	7-10
500		CONSOLE	7-11
501		CONSOLE	7-11
501	INVALID OR UNDEFINED FILENAME - DISC FILE ASSUMED	RPG	3-11
502		CONSOLE	7-11
502	FILE IS NOT AN INPUT, UPDATE, OR COMBINED FILE - D	RPG	3-11
503		CONSOLE	7-11
503	AND/OR LINE CANNOT FOLLOW TRAILER OR LOOK-AHEAD	RPG	3-11
504		CONSOLE	7-11
504	AND/OR LINE DOES NOT FOLLOW RECORD IDENTIFICATION	RPG	3-11
505		CONSOLE	7-11
505	AND/OR LINE FOLLOW LINE WITHOUT RECORD IDENTIFICA	RPG	3-11
506		CONSOLE	7-11
506	AND/OR LINE AND NUMBER/OPTION (COLUMNS 17-18) NOT	RPG	3-11
507		CONSOLE	7-11
507	AND LINE AND RECORD INDICATOR (COLUMNS 19-20) NOT	RPG	3-11
508		CONSOLE	7-11
508	AND LINE AND STACKER SELECT (COL. 42) NOT BLANK	RPG	3-11

CODE	MESSAGE	SYSTEM	TABLE
509		CONSOLE	7-11
509	TRAILER HEADER DOES NOT CONTAIN ALPHA SEQUENCE OR	RPG	3-11
510	COLS. 17-18, 21-42 NONBLANK FOR TRAILER OR LOOK-A	RPG	3-11
511	PREVIOUS LOOK-AHEAD FOR FILE	RPG	3-11
512	LOOK-AHEAD RECORD HAS NON-ALPHA SEQUENCE NUMBER (C	RPG	3-11
513	ALPHA SEQUENCE (COLUMNS 15-16) FOLLOWS NUMERIC - A	RPG	3-11
514	OPTION/NUMBER FIELDS (COLUMNS 17-18) NOT BLANK FOR	RPG	3-11
515	INVALID SEQUENCE NUMBER (COLUMNS 15-16) - ASSUME A	RPG	3-11
516	INVALID SEQUENCE NUMBER (COLUMNS 15-16) - ASSUME N	RPG	3-11
517	SEQUENCE (COLUMNS 15-16) NOT ASCENDING - ASSUME AS	RPG	3-11
518	FIRST NUMERIC SEQUENCE NOT 1 - ASSUME 1	RPG	3-11
519	NUMBER FIELD (COLUMN 17) NOT 1 OR N WITH NUMERIC S	RPG	3-11
520		CONSOLE	7-11
520	OPTION FIELD (COLUMN 18) NOT BLANK OR O - ASSUME O	RPG	3-11
520	TRYING TO CLOSE AN UNOPENED FILE	COBOL	3-5
521	CLOSE UNSUCCESSFUL	COBOL	3-5
521	INVALID RECORD IDENTIFICATION INDICATOR	RPG	3-11
522		CONSOLE	7-11
522	STACKER SELECT (COLUMN 42) NOT BLANK, 1 OR 2 - ASS	RPG	3-11
523		CONSOLE	7-11
523	INVALID RECORD IDENTIFICATION CODE POSITION FIELD	RPG	3-11
524		CONSOLE	7-11
524	RECORD ID CODE POSITION (COLUMNS 21-24, 28-31, OR	RPG	3-11
525		CONSOLE	7-11
525	NOT FIELD (COLUMNS 25, 32, OR 39) NOT BLANK OR N -	RPG	3-11
526		CONSOLE	7-11
526	C/Z/D FIELD (COLUMNS 26, 33, OR 40) NOT C,Z OR D -	RPG	3-11
527		CONSOLE	7-11
527	NO FIELD DESCRIPTIONS FOR PREVIOUS RECORD	RPG	3-11
528		CONSOLE	7-11
528	COLUMNS 43-70 NON-BLANK FOR RECORD DESCRIPTION	RPG	3-11
529		CONSOLE	7-11
529	COLUMN 43 NOT P,B,L,1-9, OR BLANK - ASSUME BLANK	RPG	3-11
530		CONSOLE	7-11
530	FROM FIELD LOCATION INVALID - ASSUME 1	RPG	3-11
531		CONSOLE	7-11
531	TO FIELD LOCATION INVALID - ASSUME 1	RPG	3-11
532		CONSOLE	7-11
532	FROM GREATER THAN TO FIELD LOCATION - ASSUME FIELD	RPG	3-11
533	FIELD LOCATION NOT WITHIN RECORD LENGTH	RPG	3-11
534	DECIMAL POSITIONS (COLUMN 52) NOT BLANK OR 0-9 - A	RPG	3-11
535	FIELDNAME (COLUMNS 53-58) BLANK OR INVALID - SPECI	RPG	3-11
536	INVALID INDEX FOR FIELD NAME (COLUMNS 53-58) ASSUM	RPG	3-11
537	VARIABLE ARRAY INDEX (COLUMNS 53-58) IS NOT NUMERI	RPG	3-11
538	VARIABLE ARRAY INDEX (COLUMNS 53-58) DOES NOT HAVE	RPG	3-11
539	INDEX CANNOT BE AN ARRAY NAME	RPG	3-11
540	FIELD NAME (COLUMNS 53-58) IS A NON-ALTERABLE FIEL	RPG	3-11
540	TRYING OPEN, FILE ALREADY OPEN	COBOL	3-5
541	PAGE INVALIDLY REDEFINED - MUST BE NUMERIC WITH ZE	RPG	3-11
542	DECIMAL POSITIONS (COLUMN 52) DIFFERS FROM PREVIOUS	RPG	3-11
542	OPEN SERVICE NOT GRANTED	COBOL	3-5
543	AREA ALREADY IN USE BY SAME AREA CLAUSE	COBOL	3-5
543	FIELD SIZE IS NOT A MULTIPLE OF THE NUMBER OF ELEM	RPG	3-11
544	ARRAY SIZE EXCEEDED - ASSUME TO END OF ARRAY	RPG	3-11
545	FIELD SIZE NOT SAME AS PREVIOUSLY DEFINED - ASSUME	RPG	3-11
546	FIELD PREVIOUSLY DEFINED AS ALPHA - ASSUME ALPHA	RPG	3-11
547	FIELD PREVIOUSLY DEFINED AS NUMERIC - ASSUME NUMER	RPG	3-11
548	ALPHA FIELD SIZE GREATER THAN 256 - ASSUME 256	RPG	3-11
549	DECIMAL FIELD LENGTH EXCEEDS 15 DIGITS - ASSUME 15	RPG	3-11
550	DECIMAL POSITIONS EXCEED NUMBER OR DIGITS - ASSUME	RPG	3-11
550	TRY TO READ CLOSED FILE, OR FILE NOT OPEN	COBOL	3-5
551	FIELD RECORD RELATION (COLUMNS 63-64) INVALID INDI	RPG	3-11
551	READ SERVICE NOT GRANTED	COBOL	3-5
552	CONTROL LEVEL (COLUMNS 59-60) NOT BLANK OR L1-L9 -	RPG	3-11

CODE	MESSAGE	SYSTEM	TABLE
553	CONTROL LEVEL LENGTH DIFFERS FROM PREVIOUS DEFINIT	RPG	3-11
554	CONTROL LEVEL (COLS. 59-60) OR MATCHING FLD (COLS.	RPG	3-11
555	CONTROL OR MATCHING FIELD (COLUMNS 59-62) USED FOR	RPG	3-11
556	INVALID MATCHING OR CHAINING ENTRY - ASSUME BLANK	RPG	3-11
557	ARRRAY USED FOR MATCHING FIELD - ASSUME NO MATCHIN	RPG	3-11
558	FIELD RECORD RELATION PREVIOUSLY USED WITH THIS MA	RPG	3-11
559	MATCHING ALREADY SPECIFIED FOR THIS FIELD RECORD R	RPG	3-11
560	MATCHING LEVEL LENGTH DIFFERS FROM PREVIOUS DEFINI	RPG	3-11
561	COMPLETE SET OF MATCHING FIELDS NOT DEFINED FOR LA	RPG	3-11
562	MATCHING OR CHAINING LEVEL (COLUMNS 61-62) NOT VAL	RPG	3-11
563	CHAINING (COLUMUNS 61-62) SPECIFIED WITH LOOK-AHEA	RPG	3-11
564	L OR R (COLUMN 43) SPECIFIED WITH CHAINING (COLUMN	RPG	3-11
565	ARRAY SPECIFIED AS CHAINING FIELD - IGNORE CHAININ	RPG	3-11
566	SPLIT CHAINING USED WITH NO CONVERSION ROUTINE	RPG	3-11
567	CHAINING LEVEL (COLUMNS 61-62) ALREADY SPECIFIED F	RPG	3-11
568	FIELD RECORD RELATION PREVIOUSLY USED IN THIS RECO	RPG	3-11
569	INVALID PLUS RESULT INDICATOR (COLUMNS 65-66) - AS	RPG	3-11
570	INVALID MINUS RESULT INDICATOR (COL. 67-68) - ASSU	RPG	3-11
571	INVALID BLANK/ZERO RESULT INDICATOR (COLS. 69-70)	RPG	3-11
572	FIELD USED PREVIOUSLY AS INDEX NOT DEFINED AS NUME	RPG	3-11
573	TABLE USED AS INPUT FIELD	RPG	3-11
574	MATCHING OR CONTROL LEVEL WITH BLANK FIELD RELATIO	RPG	3-11
575	FIRST INPUT SPECIFICATION DOES NOT HAVE FILE NAME	RPG	3-11
576	FILENAME ALREADY USED FOR INPUT SPECIFICATIONS	RPG	3-11
577	NUMERIC SEQUENCE (COL. 15-16) SPECIFIED FOR CHAINE	RPG	3-11
578	BLANK RECORD - RECORD IGNORED	RPG	3-11
579	LOOK-AHEAD OR TRAILER RECORD NOT IN A PRIMARY OR S	RPG	3-11
580	P,B,L, OR R (COL. 43) SPECIFIED FOR ALPHA FIELD -	RPG	3-11
581	BINARY FIELD LENGTH IS NOT 2 OR 4 - ASSUME UNPACKE	RPG	3-11
582	INDEX SPECIFIED FOR NON-ARRAY - IGNORE INDEX	RPG	3-11
583	MATCHING RECORD FILE NOT IN SAME SEQUENCE AS LAST	RPG	3-11
584	INPUT FILE HAS NO INPUT SPECIFICATIONS	RPG	3-11
585	DIGIT LENGTH OF FIELD IS ZERO - ASSUME 1	RPG	3-11
586	CHAINING CODE AND FILE NOT SPECIFIED ON EXTENSION	RPG	3-11
587	ARRAY USED FOR LEVEL F: LD - ASSUME NOT A LEVEL FI	RPG	3-11
588	LOOK-AHEAD FIELD PREVIOUSLY DEFINED - RECORD IGNOR	RPG	3-11
589	CHAINING FIELD NUMERIC BUT ALPHA KEYS SPECIFIED ON	RPG	3-11
590	CHAINING FIELD LENGTH NOT SAME AS KEY FIELD LENGTH	RPG	3-11
601	INVALID CONTROL LEVEL IN COL. 7-8, ASSUME LATEST L	RPG	3-12
602	AN/OR LINE OUT OF ORDER OR INVALID, IGNORE AN/OR L	RPG	3-12
603	MORE THAN 7 AN/OR LINES, IGNORE ENTIRE GROUP	RPG	3-12
604	'AN' OR 'OR' NOT SPECIFIED IN COL. 7-8, IGNORE GRO	RPG	3-12
605	OPERATION NOT RECOGNIZED	RPG	3-12
606	'NOT' ENTRY IN COL. 9, 12 OR 15 NOT N OR BLANK, AS	RPG	3-12
607	INVALID OPERATION INDICATOR, IGNORE INDICATOR GROU	RPG	3-12
608	INDICATOR MISSING FOR 'NOT' IN COL. 9, 12 OR 15, I	RPG	3-12
609	INVALID RESULTING INDICATOR, IGNORE INDICATOR GROU	RPG	3-12
610	INVALID RESULT FIELD ENTRY IN COL. 43-46	RPG	3-12
610	TRYING WRITE, FILE NOT OPEN YET	COBOL	3-5
611	INVALID FACTOR 1 ENTRY IN COL. 18-27	RPG	3-12
611	WRITE SERVICE NOT GRANTED	COBOL	3-5
612	INVALID FACTOR 2 ENTRY IN COL. 33-42	RPG	3-12
613	INVALID INDEX IN RESULT FIELD (COL. 43-48)	RPG	3-12
614	INVALID INDEX IN FACTOR 1 (COL. 18-27)	RPG	3-12
615	INVALID INDEX IN FACTOR 2 (COL. 33-42)	RPG	3-12
616	INVALID FILE NAME ENTRY FOR FACTOR 2 (COL. 33-42)	RPG	3-12
617	INVALID RESULT FIELD LENGTH ENTRY IN COL. 49-51	RPG	3-12
618	INVALID DECIMAL POSITIONS ENTRY IN COL. 52	RPG	3-12
619	RESULT FIELD LENGTH MISSING BUT DEC POS SPECIFIED.	RPG	3-12
620	HALF ADJUST ENTRY IN COL. 53 NOT H OR BLANK, ASSUM	RPG	3-12
621	FIELD ATTRIBUTE NOT SAME AS PREV DEFN, USE PREV DE	RPG	3-12
622	RESULT FIELD HAS INDEX BUT NOT ARRAY NAME, IGNORE	RPG	3-12
623	FILE NAME IN FACTOR 2 NOT DEFINED BY FILE DESC SPE	RPG	3-12
625	RESULT FIELD IS MISSING (COL. 43-48)	RPG	3-12

CODE	MESSAGE	SYSTEM	TABLE
626	FACTOR 1 IS MISSING (COL. 18-27)	RPG	3-12
627	FACTOR 2 IS MISSING (COL. 33-42)	RPG	3-12
628	A RESULTING INDICATOR MUST BE SPECIFIED FOR THIS O	RPG	3-12
629	MISSING AN/OR LINE, IGNORE OPERATION INDICATOR GRO	RPG	3-12
630	FIRST 3 CHARACTERS OF USER LABEL NOT 'UHL'	COBOL	3-5
630	MISSING ENDSR STATEMENT, ASSUME ENDSR	RPG	3-12
631	MORE THAN 8 USER LABELS NOT ALLOWED	COBOL	3-5
631	OPERATION INDICATORS MISSING ON AN/OR LINE	RPG	3-12
632	INDICATORS IN COL. 9-17 NOT ALLOWED FOR THIS OPERA	RPG	3-12
633	INDICATORS IN COL. 54-59 NOT ALLOWED FOR THIS OPER	RPG	3-12
634	RESULT FIELD SHOULD BE BLANK FOR THIS OPER, ASSUME	RPG	3-12
635	FACTOR 1 SHOULD BE BLANK FOR THIS OPER. ASSUME BLA	RPG	3-12
636	FACTOR 2 SHOULD BE BLANK FOR THIS OPER. ASSUME BLA	RPG	3-12
637	FIELD USED AS RESULT IS NON ALTERABLE, IGNORE SPEC	RPG	3-12
638	PAGE FIELD USED AS RESULT FIELD IS ALREADY REDEFIN	RPG	3-12
640	GOTO OPERATION MAY NOT BRANCH INTO OR OUT OF SUBRO	RPG	3-12
641	DEC POS ENTRY GREATER THAN FIELD LENGTH, ASSUME ZE	RPG	3-12
642	NAME REFERENCED SHOULD BE TAG NAME	RPG	3-12
643	A SUBROUTINE MAY NOT CALL ITSELF	RPG	3-12
644	BEGSR STATEMENT MISSING, ASSUME BEGSR	RPG	3-12
645	BEGSR OUT OF SEQUENCE, IGNORE BEGSR LINE	RPG	3-12
646	DEBUG OPTION NOT SPECIFIED IN COL. 15 OF CONTROL C	RPG	3-12
647	FIELD LENGTH AND DEC POS SHOULD BE BLANK, ASSUME B	RPG	3-12
648	DEC POS ENTRY (COL. 52) SHOULD BE BLANK, ASSUME BL	RPG	3-12
649	HALF ADJUST ENTRY (COL. 53) SHOULD BE BLANK, ASSUM	RPG	3-12
650	BEGSR STATEMENT SHOULD HAVE SR IN COL. 7-8, ASSUME	RPG	3-12
651	FIELD LENGTH OVER 256 FOR ALPHANUMERIC OR OVER 15	RPG	3-12
652	OPERATOR NOT IMPLEMENTED ON THIS VERSION OF RPG	RPG	3-12
653	PRECEDING OPERATOR WAS NOT A DIV	RPG	3-12
654	DUPLICATE TAG NAME	RPG	3-12
655	DUPLICATE SUBROUTINE NAME	RPG	3-12
656	SYMBOL NOT DEFINED	RPG	3-12
657	RESULT FIELD SHOULD BE ALPHANUMERIC FOR THIS OPERA	RPG	3-12
658	FIELD 1 SHOULD BE ALPHANUMERIC FOR THIS OPERATOR	RPG	3-12
659	FIELD 2 SHOULD BE ALPHANUMERIC FOR THIS OPERATOR	RPG	3-12
660	FIELD 2 SHOULD BE THE SAME TYPE AS FIELD 1	RPG	3-12
661	RESULT FIELD SHOULD BE NUMERIC FOR THIS OPERATOR	RPG	3-12
662	FIELD 1 SHOULD BE NUMERIC FOR THIS OPERATOR	RPG	3-12
663	FIELD 2 SHOULD BE NUMERIC FOR THIS OPERATOR	RPG	3-12
664	RESULTING INDICATOR REQUIRED IN COL. 54-55; ASSUME	RPG	3-12
665	RESULTING INDICATOR REQUIRED IN COL. 58-59; ASSUME	RPG	3-12
666	RESULTING INDICATOR REQUIRED IN COL. 56-57; ASSUME	RPG	3-12
667	ILLEGAL I/O MODE IN IMAGE FILE	RPG	3-12
668	INCOMPATIBLE FIELD LENGTH	RPG	3-12
669	FILE SPECIFIED IN FACTOR 2 NOT AN INDEXED DEMAND FL	RPG	3-12
670	FILE BEING READ IS NOT A DEMAND FILE	RPG	3-12
671	CURRENT FIELD USE INCONSISTENT WITH PREVIOUS USE	RPG	3-12
701	INVALID FILENAME IN COL. 7-14, SPEC IS DROPPED	RPG	3-13
702	AND OR OR LINE NOT PRECEDED BY RECORD DESCRIPTION	RPG	3-13
703	NO RECORD DESCRIPTION ENTRIES DEFINED YET	RPG	3-13
704	INVALID ENTRIES IN COL 32-74 FOR A RECORD	RPG	3-13
705	INVALID ENTRIES IN COL 7-22 FOR A FIELD	RPG	3-13
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FACTOR 1 SHOULD BE BLANK FOR THIS OPER. ASSUME BLA	635	RPG	3-12

MESSAGE	CODE	SYSTEM	TABLE
FACTOR 2 IS MISSING (COL. 33-42)	627	RPG	3-12
FACTOR 2 SHOULD BE BLANK FOR THIS OPER. ASSUME BLA	636	RPG	3-12
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FAILURE ON FCLOSE OF OUTPUT FILE	25	MERGE	5-7
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FAILURE ON FGETINFO (INPUTFILE)	11	MERGELIB	5-6
FAILURE ON FOPEN OF INPUT FILE	14	SORT	5-5
FAILURE ON FOPEN OF LIST FILE	1	SORT	5-5
FAILURE ON FOPEN OF LIST FILE	1	MERGE	5-7
FAILURE ON FOPEN OF LIST FILE		XRTCGEN	6-1
FAILURE ON FOPEN OF OLD OUTPUT FILE	29	SORT	5-5
FAILURE ON FOPEN OF OLD OUTPUT FILE	28	MERGE	5-7
FAILURE ON FOPEN OF OUTPUT FILE	24	SORT	5-5
FAILURE ON FOPEN OF OUTPUT FILE	22	MERGE	5-7
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FAILURE ON FREAD OF TEXT FILE	31	MERGE	5-7
FAILURE ON FRENAME OF OUTPUT FILE	30	SORT	5-5
FAILURE ON FRENAME OF OUTPUT FILE	29	MERGE	5-7
FAILURE ON FWRITE OF PROMPT FILE	31	SORT	5-5
FAILURE ON FWRITE OF PROMPT FILE	30	MERGE	5-7
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FAILURE TO OPEN JOIN FILE (errorcode)	51	EDIT	5-2
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FAILURE TO OPEN TEXT FILE (errorcode)	23	EDIT	5-2
FAILURE TO OPEN USE FILE (errorcode)	47	EDIT	5-2
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FATAL FREAD ERROR ON LOGFILE xxxx ERROR		LISTLOG2	5-12
FATHER	109	MPE Intrinsics	2-5
FCHECK	10	MPE Intrinsics	2-5
FCLOSE	8	MPE Intrinsics	2-5
FCLOSE ERROR ON LINE PRINTER ERROR NUMBER xx		LISTLOG2	5-12
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FCLOSE FAILURE (errorcode)	60	EDIT	5-2
FCONTROL	13	MPE Intrinsics	2-5
FETCH OVERFLOW INVALID WITH 1P INDICATOR, ASSUME N	736	RPG	3-13
FETCH OVERFLOW INVALID WITH OVERFLOW INDICATOR ENT	733	RPG	3-13
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FIELD 1 SHOULD BE NUMERIC FOR THIS OPERATOR	662	RPG	3-12
FIELD 2 SHOULD BE ALPHANUMERIC FOR THIS OPERATOR	659	RPG	3-12
FIELD 2 SHOULD BE NUMERIC FOR THIS OPERATOR	663	RPG	3-12
FIELD 2 SHOULD BE THE SAME TYPE AS FIELD 1	660	RPG	3-12
FIELD A MUST BE BLANK	3	COBOL	3-4
FIELD ATTRIBUTE NOT SAME AS PREV DEFN, USE PREV DE	621	RPG	3-12
FIELD LENGTH AND DEC POS SHOULD BE BLANK, ASSUME B	647	RPG	3-12
FIELD LENGTH OVER 256 FOR ALPHANUMERIC OR OVER 15	651	RPG	3-12

MESSAGE	CODE	SYSTEM	TABLE
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FIELD NAME (COLUMNS 27-32) BLANK OR INVALID - ENTR	325	RPG	3-9
FIELD NAME (COLUMNS 46-51) BLANK OR INVALID - ENTR	337	RPG	3-9
FIELD NAME (COLUMNS 53-58) IS A NON-ALTERABLE FIEL	540	RPG	3-11
FIELD PREVIOUSLY DEFINED AS ALPHA - ASSUME ALPHA	546	RPG	3-11
FIELD PREVIOUSLY DEFINED AS NUMERIC - ASSUME NUMER	547	RPG	3-11
FIELD RECORD RELATION (COLUMNS 63-64) INVALID INDI	551	RPG	3-11
FIELD RECORD RELATION PREVIOUSLY USED IN THIS RECO	568	RPG	3-11
FIELD RECORD RELATION PREVIOUSLY USED WITH THIS MA	558	RPG	3-11
FIELD SIZE (COLUMNS 40-42) BLANK OR INVALID - 1 AS	320	RPG	3-9
FIELD SIZE (COLUMNS 52-54) BLANK OR INVALID - 1 AS	330	RPG	3-9
FIELD SIZE IS NOT A MULTIPLE OF THE NUMBER OF ELEM	543	RPG	3-11
FIELD SIZE NOT SAME AS PREVIOUSLY DEFINED - ASSUME	545	RPG	3-11
FIELD SIZE OF 1 NOT ALLOWED WITH L OR R SPECIFIED	319	RPG	3-9
FIELD SIZE OF 1 NOT ALLOWED WITH L OR R SPECIFIED	329	RPG	3-9
FIELD USED AS RESULT IS NON ALTERABLE. IGNORE SPEC	637	RPG	3-12
FIELD USED PREVIOUSLY AS INDEX NOT DEFINED AS NUME	572	RPG	3-11
FIELDNAME (COLUMNS 53-58) BLANK OR INVALID - SPECI	535	RPG	3-11
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FILE CREATOR CONFLICT		APL	3-31
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FILE DESCRIBED AS 'ADD' TYPE FILE, EACH RECORD LIN	728	RPG	3-13
FILE DESIGNATION ENTRY IN COL. 16 INVALID FOR OUTP	227	RPG	3-8
FILE DESIGNATION IN COL. 16 IS INVALID FOR FILETYP	203	RPG	3-8
FILE DOES NOT EXIST, BEING CREATED		QUERY	4-16
FILE DOES NOT EXIST, BEING CREATED		QUERY	4-21
FILE EQUATION TABLE FULL	56	MPE Commands	2-1
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FILE EXISTS		APL	3-31
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FILE FORMAT IN COL. 19 IS INVALID, ASSUME F	206	RPG	3-8
FILE IS NOT AN APL WORKSPACE		APL	3-30
FILE IS NOT APL WORKSPACE		APL	3-31
FILE IS NOT AN INPUT, UPDATE, OR COMBINED FILE - D	502	RPG	3-11
FILE IS UNAVAILABLE FOR THIS USE	11	BASIC Interpreter	3-22
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FILE NAME CANNOT EXCEED 35 CHARACTERS	7	SORT	5-5
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FILE NAME PREVIOUSLY DEFINED IN COL. 7-14, SPEC IS	201	RPG	3-8
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FILE NOT TYPE ASCII		QUERY	4-20
FILE NOT TYPE ASCII		QUERY	4-21
FILE NOT TYPE ASCII		QUERY	4-25
FILE NOT TYPE ASCII	5	EDIT	5-2
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FILE NOT WS		APL	3-31
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FILE OPEN ERROR code		QUERY	4-10
FILE OPEN FAILURE		XRTCGEN	6-1
FILE OR PROCEDURE NAME TOO LONG	63	BASIC Interpreter	3-23
FILE OVERFLOW	70	BASIC Interpreter	3-22
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FILE READ ERROR code		QUERY	4-10
FILE READ FAILURE		XRTCGEN	6-1
FILE RECORD LENGTH EXCEEDED	39	BASIC Interpreter	3-25
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FILE SPECIFIED IN FACTOR 2 NOT AN INDEXED DEMAND FL	669	RPG	3-12
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FILE SYSTEM ERROR ON UNIT #xx	111	Compiler Library	5-16
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FILE-LIMIT(S) CLAUSE NOT IMPLEMENTED	34	COBOL	3-4
FILE-NAME APPEARED IN MORE THAN 1 SELECT CLAUSE	44	COBOL	3-4
FILE-NAME APPEARS IN MORE THAN 1 SAME/RECORD/SORT	36	COBOL	3-4
FILE-NAME MUST BE A SEQUENTIAL ACCESS FILE	172	COBOL	3-4
FILE-NAME MUST BE UNIQUE	66	COBOL	3-4
FILE-NAME NOT APPEARED IN A SELECT CLAUSE	55	COBOL	3-4
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FILENAME ALREADY USED FOR INPUT SPECIFICATIONS	576	RPG	3-11
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FLOATING POINT OVERFLOW	2	MPE Intrinsics	2-4
FLOATING POINT UNDERFLOW	3	MPE Intrinsics	2-4
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FOPEN	1	MPE Intrinsics	2-5
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FORMAT REFERENCE TO NON-FORMAT	149	FORTRAN	3-3
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FREAD ERROR ON INPUTFILE	18	SORTLIB	5-4
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FREAD FAILED FROM LOGFILE xxxx ERROR NUMBER xx		LISTLOG2	5-12
FREADDIR	7	MPE Intrinsics	2-5
FREADIR FAILURE	-3	RPG	3-17
FREADLABEL	19	MPE Intrinsics	2-5
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FREADSEEK	12	MPE Intrinsics	2-5
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FRELATE	18	MPE Intrinsic	2-5
FRENAME	17	MPE Intrinsic	2-5
FRENAME ERROR ON KEEP FILE (errorcode)	68	EDIT	5-2
FRENAME ERROR ON TEXT FILE (errorcode)	67	EDIT	5-2
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FROM FILE IS NOT AN INPUT FILE, RECORD IGNORED	304	RPG	3-9
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FROM FILENAME (COLUMN 11-18) INVALID OR UNDEFINED-	302	RPG	3-9
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MISSING LEFT PARENTHESIS IN C-SPECIFICATION	46	BASIC Compiler	3-19
MISSING NAME		APL	3-27
MISSING NUM OR KEY	15	SORT	5-5
MISSING NUMBER AFTER APOSTROPHE	40	BASIC Compiler	3-19
MISSING NUMBER AFTER APOSTROPHE	61	BASIC Compiler	3-21
MISSING OF		SPL	3-1
MISSING OR ILLEGAL STATEMENT NUMBER	50	BASIC Interpreter	3-23
MISSING OR INCORRECTLY SPECIFIED END POSITION IN C	727	RPG	3-13
MISSING PARAMETER	10	BASIC Interpreter	3-22
MISSING PARAMETER	3	EDIT	5-2
MISSING PARAMETER	18	SORT	5-5
MISSING PARAMETER	9	MERGE	5-7
MISSING PROGRAM-ID PARAGRAPH	65	COBOL	3-4
MISSING QUOTATION MARK	9	COBOL	3-4
MISSING QUOTATION MARK		IMAGE	4-2
MISSING QUOTE IN IMAGE	16	BASIC Interpreter	3-25
MISSING RELATIONAL OPERATOR	59	BASIC Interpreter	3-23
MISSING REPLICATOR IN IMAGE	18	BASIC Interpreter	3-25
MISSING RIGHT BRACKET		SPL	3-1
MISSING RIGHT PARENTHESIS		SPL	3-1
MISSING RIGHT PARENTHESIS	50	BASIC Compiler	3-19
MISSING RIGHT PARENTHESIS	64	BASIC Compiler	3-21
MISSING RIGHT PARENTHESIS	9	BASIC Interpreter	3-23
MISSING RIGHT PARENTHESIS IN IMAGE	21	BASIC Interpreter	3-25

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MISSING RIGHT QUOTE	60	BASIC Compiler	3-21
MISSING SEARCH OR SORT ITEM	-53	RPG	3-17
MISSING SEMICOLON		SPL	3-1
MISSING SEMICOLON	49	SPOOK	5-18
MISSING SEMICOLON	33	BASIC Interpreter	3-23
MISSING SEPARATOR	47	BASIC Compiler	3-19
MISSING SEPARATOR	67	BASIC Compiler	3-21
MISSING SLASH		SPL	3-1
MISSING SPACE	6	COBOL	3-4
MISSING SPECIFICATION		SPL	3-1
MISSING SPECIFICATION		SPL	3-2
MISSING START LINE		APL	3-29
MISSING SUBPROGRAM		SPL	3-1
MISSING SUBSCRIPT	173	FORTRAN	3-3
MISSING SUBSCRIPT IN FIRST OCCURRENCE OF COM	56	BASIC Compiler	3-21
MISSING SUBSCRIPT SPECIFICATION IN FIRST OCCURRENCE	3	BASIC Interpreter	3-24
MISSING SYMBOL	802	RPG	3-14
MISSING THEN		SPL	3-1
MISSING UNTIL		SPL	3-1
MISSION OPTION	804	RPG	3-14
MIXED SUBSCRIPTING AND INDEXING	253	COBOL	3-4
MNEMONIC NAME ERROR	158	COBOL	3-4
MNEMONIC NAME MUST BE UNIQUE	30	COBOL	3-4
MODE OF PROCESSING IN COLUMN 28 MUST BE 'R' FOR DI	251	RPG	3-8
MODE OF PROCESSING IN COLUMN 28 MUST BE SEQUENTIAL	253	RPG	3-8
MORE THAN 10 GOSUBS	23	BASIC Interpreter	3-25
MORE THAN 16 FILES	34	BASIC Compiler	3-19
MORE THAN 16 FILES	1	BASIC Interpreter	3-24
MORE THAN 20 AND/OR LINES, SPEC IS DROPPED	709	RPG	3-13
MORE THAN 5 FIELDS ARE BEING TOTALED		QUERY	4-23
MORE THAN 7 AND/OR LINES, IGNORE ENTIRE GROUP	603	RPG	3-12
MORE THAN 909 VARIABLES AND USER FUNCTIONS	6	BASIC Interpreter	3-24
MORE THAN ONE EXTENT IN PROGRAM	210	MPE Commands	2-1
MORE THAN ONE EXTENT USED	34	Segmenter	5-1
MORE THAN ONE HEADER CARD, SPECIFICATION DROPPED	101	RPG	3-7
MORE THAN ONE KEY ITEM		IMAGE	4-3
MORE THAN ONE OUTER BLOCK HAS ACTIVE ENTRY POINTS	62	Segmenter	5-1
MORE THAN ONE OUTER BLOCK IS ACTIVE	61	Segmenter	5-1
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MOUNT CORRECT VOLUMES OR RELOAD		CONSOLE	7-3
MOUNT NEXT REEL ON LDEV#		CONSOLE	7-2
MOUNT REEL #n ON LDEV#		CONSOLE	7-2
MOVE OR COMPARE >32K BYTES	189	COBOL	3-4
MULTIPLE DEFINED PROCEDURE FOR SAME FILE	161	COBOL	3-4
MULTIPLE DEFINITION OF SAME COM	2	BASIC Interpreter	3-24
MULTIPLE FILE LOCK	68	BASIC Interpreter	3-25
MULTIPLE FORWARD DECLARATION		SPL	3-1
MULTIPLE LINE COUNTER SPECIFICATION FOR SAME FILE	411	RPG	3-10
MULTIPLE PRIMARY FILE DEFINED IN COL. 16, ASSUME	224	RPG	3-8
MULTIPLE REEL/UNIT NOT IMPLEMENTED	32	COBOL	3-4
MULTIPLE SEGMENT NAMES	17	FORTRAN	3-3
MULTIPLE SPECIFICATIONS		SPL	3-1
MULTIREEL ABORT	60	SPOOK	5-18
MUST BE APL OR APLGOL		APL	3-29
MUST BE DB		SPL	3-1
MUST BE DB OR Q		SPL	3-1
MUST BE DOUBLE OR LOGICAL		SPL	3-1
MUST BE INTEGER TYPE		SPL	3-1
MUST BE INTEGER, LOGICAL OR BYTE		SPL	3-1
MUST BE LOCAL		SPL	3-1
MUST BE TYPE BYTE		SPL	3-1
MUST BE TYPE LOGICAL		SPL	3-1
MUST BE TYPE PROCEDURE		SPL	3-1

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MUST BE VALUE FORMAL PARAMETER		SPL	3-1
MYCOMMAND	71	MPE Intrinsic	2-5
NAME ERROR		XRTGEN	6-1
NAME MUST NOT QUALIFY ITSELF	70	COBOL	3-4
NAME NOT ON FILE	223	FORTTRAN	3-3
NAME NOT UNIQUE	222	FORTTRAN	3-3
NAME OF FIELD TO BE EDITED, BY CODE SPECIFIED IN C	742	RPG	3-13
NAME REFERENCED SHOULD BE TAG NAME	642	RPG	3-12
NAME TOO LONG		APL	3-28
NAME TOO LONG - TRUNCATED	14	BASIC Interpreter	3-22
NEGATIVE FILE SIZE	27	BASIC Compiler	3-21
NEGATIVE MOVE ATTEMPT: n		IMAGE	4-7
NEGATIVE NUMBER TO REAL POWER	14	BASIC Compiler	3-21
NEGATIVE NUMBER TO REAL POWER	27	BASIC Interpreter	3-25
NEGATIVE SQUARE ROOT, LINE NUMBER=nnn	6	RPG	3-16
NEITHER OUTPUTFILE NOR POSTPROCESSOR PARAMETER SPE	4	MERGENLIB	5-6
NESTED COPY STATEMENT IGNORED	68	COBOL	3-4
NESTED PROCEDURE NOT ALLOWED		SPL	3-1
NESTING EXCEEDS 5 LEVELS	15	FORTTRAN	3-3
NESTING TOO DEEP	103	Compiler Library	5-16
NEW NOT ALLOWED WITH KSAM FROMFILE	903	FCOPY	5-3
NEW OPTION: FILE ALREADY EXISTS	144	FCOPY	5-3
NEW TAPE REQD. ON LDEV#. IS TAPE MOUNTED?		CONSOLE	7-2
NO 'A' CARD FOR TRANSLATION, ALTERNATE COLLATING	909	RPG	3-15
NO DISC SPACE AVAILABLE		APL	3-30
NO DISC SPACE AVAILABLE		APL	3-31
NO ENTRY	17	RPG	3-17
NO ENTRY		QUERY	4-17
NO ENVIRONMENTS		APL	3-28
NO EQUIVALENT CLASS	58	SPOOK	5-18
NO EQUIVALENT DEVICE	57	SPOOK	5-18
NO EXIT EXISTS IN PROGRAM	237	COBOL	3-4
NO EXTENSION SPECIFICATION FOR FILE WITH E IN COLU	339	RPG	3-9
NO FIELD DESCRIPTION ENTRIES FOR PREVIOUS RECORD,	707	RPG	3-13
NO FIELD DESCRIPTIONS FOR PREVIOUS RECORD	527	RPG	3-11
NO FILE DESCRIPTION SPECIFICATION FOUND	235	RPG	3-8
NO HEADER CARD FOR RPG PROGRAM, ASSUME BLANK HEADE	139	RPG	3-7
NO INITIAL VALUES	24	FORTTRAN	3-3
NO INPUT ACCESS TO 'DUMP' FILE	71	BASIC Interpreter	3-22
NO INPUT ACCESS TO COMMAND FILE	46	BASIC Interpreter	3-22
NO INPUT ACCESS TO INPUT FILE	49	BASIC Interpreter	3-22
NO INPUT ACCESS TO XEQ FILE	56	BASIC Interpreter	3-22
NO INPUTFILES PARAMETER SPECIFIED	3	MERGENLIB	5-6
NO INPUTFILES WERE SPECIFIED	24	MERGE	5-7
NO KEYS WERE SPECIFIED	6	SORT	5-5
NO KEYS WERE SPECIFIED	6	MERGE	5-7
NO LIMIT PARAMETER	180	FORTTRAN	3-3
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NO LOCK SPECIFICATION FOR FILE	67	BASIC Interpreter	3-25
NO MANUAL ENTRY FOR DETAIL	100	RPG	3-17
NO MANUAL ENTRY FOR DETAIL ON PATH NUMBER n		IMAGE	4-9
NO MORE BUFFER SPACE	22	BASIC Interpreter	3-24
NO MORE SPACE IN SPOOL CLASS, ALL QUEUES SHUT		CONSOLE	7-1
NO NUMINPUTFILES PARAMETER SPECIFIED	1	MERGENLIB	5-6
NO OF INDICES DOES NOT MATCH NO OF DIMENSIONS	249	COBOL	3-4
NO OUTPUT ACCESS TO 'OUT' FILE	72	BASIC Interpreter	3-22
NO OUTPUT ACCESS TO LIST FILE	52	BASIC Interpreter	3-22
NO OUTPUT ACCESS TO RUN OUTPUT FILE	65	BASIC Interpreter	3-22
NO OUTPUT BLOCK IS ACTIVE	60	Segmenter	5-1
NO PAIRS FOUND IN CORRESPONDING	123	COBOL	3-4
NO PASSED FILE	112	MPE Commands	2-1
NO PRIMARY FILE SPECIFIED IN COL. 16, ASSUME FIRST	236	RPG	3-8
NO PRIMARY OR SECONDARY FILE SPECIFICATION IN COLU	244	RPG	3-8
NO PROGRAM TO PREPARE	35	Segmenter	5-1

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NO RECLEN PARAMETER SPECIFIED OR <=0	3	SORTLIB	5-4
NO RECORD DESCRIPTION ENTRIES DEFINED YET	703	RPG	3-13
NO RECORD DESCRIPTION ENTRIES FOR THIS FIELD DESCR	708	RPG	3-13
NO ROOM IN DEVICE TABLE	59	SPOOK	5-18
NO SPACE		APL	3-30
NO SPACE		APL	3-31
NO SUCH COMMAND		APL	3-29
NO SUCH DATA BASE	45	RPG	3-17
NO SUCH DATA BASE	52	RPG	3-17
NO SUCH DATA BASE		IMAGE	4-8
NO SUCH DATA BASE		QUERY	4-13
NO SUCH FILE OR ILLEGAL ACCESS	21	BASIC Interpreter	3-24
NO SUCH LIB		APL	3-30
NO SUCH LIB		APL	3-31
NO TEXT FILE	46	SPOOK	5-18
NO WRITE RING	102	MPE Commands	2-1
NO-NO		DEBUG	5-8
NO. OF SORT ITEMS EXCEEDS LIMIT		QUERY	4-23
NON 88-LEVEL IN LINKAGE SECTION WITH VALUE CLAUSE	243	COBOL	3-4
NON-88 LEVEL IN FILE SECTION WITH VALUE CLAUSE	186	COBOL	3-4
NON-ARITHMETIC PRIMARY WHERE ARITHMETIC EXPECTED	155	FORTRAN	3-3
NON-ARRAY PARAMETER IN 'ROW' OR 'COL'	14	BASIC Interpreter	3-24
NON-CONTIGUOUS STRING	3	BASIC Interpreter	3-25
NON-DIGIT IN LABEL FIELD	1	FORTRAN	3-3
NON-EDITABLE FILE TYPE (filecode)	24	EDIT	5-2
NON-EXISTENT ACCOUNT	106	MPE Commands	2-1
NON-EXISTENT CONTROL STRUCTURE		APL	3-27
NON-EXISTENT ENVIRONMENT		APL	3-28
NON-EXISTENT FILE	108	MPE Commands	2-1
NON-EXISTENT GROUP	107	MPE Commands	2-1
NON-EXISTENT TYPE CARD	3	RPG	3-6
NON-EXISTENT USER	79	MPE Commands	2-1
NON-LOGICAL OPERAND WHERE LOGICAL EXPECTED	156	FORTRAN	3-3
NON-NUMERIC IN REAL VALUE		QUERY	4-17
NON-NUMERIC IN REAL VALUE		QUERY	4-19
NON-NUMERIC IN REAL VALUE		QUERY	4-23
NON-NUMERIC IN REAL VALUE		QUERY	4-24
NON-NUMERIC VALUE EXCEEDS SIZE OF ITEM	40	COBOL	3-4
NON-OCTAL DIGIT	72	FORTRAN	3-3
NON-RESPONDING MODULE	25	MPE Intrinsics	2-4
NON-STANDARD LEVEL NUMBER	16	COBOL	3-4
NON TERMINATED CHARACTER STRING	42	SPOOK	5-18
NONCE ERROR		APL	3-28
NOT A REPORT PROCEDURE		QUERY	4-23
NOT A REPORT STATEMENT		QUERY	4-23
NOT ACCEPTABLE AT THIS POINT	42	FORTRAN	3-3
NOT ALL DATA RECORDS HAVE THE SAME SIZE	181	COBOL	3-4
NOT ALLOWED PROGRAMMATICALLY	12	MPE Commands	2-1
NOT ALLOWED; MUST BE CREATOR		IMAGE	4-8
NOT AN UPDATE PROCEDURE		QUERY	4-24
NOT ASSIGNED	312	RPG	3-9
NOT END OF COMMENT		SPL	3-1
NOT ENOUGH SECTORS IN QSKIB FILE		QUERY	4-17
NOT FIELD (COLUMNS 25, 32, OR 39) NOT BLANK OR N -	525	RPG	3-11
NOT INTERACTIVE SESSION	1	SPOOK	5-18
NOT INTRINSIC FILE		SPL	3-1
NOT ON INTRINSIC FILE		SPL	3-1
NOT ON TAPE		:RESTORE	2-15
NOT READY INTERRUPT		SADUTIL	5-10
NOT SAVED - FILE ALREADY EXISTS		APL	3-30
NOT SAVED - FILE ALREADY EXISTS		APL	3-31
NOT SAVED - WORKSPACE HAS NO NAME		APL	3-30
NOT SAVED - WORKSPACE HAS NO NAME		APL	3-31
NOT YET IMPLEMENTED		APL	3-28



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NOT YET IMPLEMENTED		APL	3-29
NOTHING DELETED	20	BASIC Interpreter	3-22
NULL STRING NOT PERMITTED	165	COBOL	3-4
NUM: ILLEGAL CHARACTER	61	Compiler Library	5-16
NUM: NUMBER OUT OF RANGE	62	Compiler Library	5-16
NUM: RANGE AND CHAP ERROR	63	Compiler Library	5-16
NUMBER >255	42	BASIC Compiler	3-19
NUMBER >255	65	BASIC Compiler	3-21
NUMBER EXCEEDS 255 CHARACTERS	68	FORTRAN	3-3
NUMBER FIELD (COLUMN 17) NOT 1 OR N WITH NUMERIC S	519	RPG	3-11
NUMBER OF BOUNDS EXCEEDS 255	107	FORTRAN	3-3
NUMBER OF ID SEGMENTS EXCEEDED		XRTCGEN	6-1
NUMBER OF PARAMETERS >60	112	COBOL	3-4
NUMBER OF RECORDS TOO LARGE OR TOO SMALL	10	SORT	5-5
NUMBER OF RECORDS TOO LARGE OR TOO SMALL	11	MERGE	5-7
NUMBER OF SUBSCRIPTS <> NUMBER OF BOUNDS	127	FORTRAN	3-3
NUMBER OF TIMES MUST BE POSITIVE INTEGER	131	COBOL	3-4
NUMBER OUT OF RANGE	808	RPG	3-14
NUMBER OUT OF RANGE	84	BASIC Interpreter	3-23
NUMBER OUT OF RANGE	106	Compiler Library	5-16
NUMBER OVER 255 AFTER	78	BASIC Interpreter	3-23
NUMBER TOO LARGE		APL	3-29
NUMERIC DATA FOR STRING ITEM	1	BASIC Compiler	3-21
NUMERIC EDIT MASK EXCEEDS 20 CHARACTERS		QUERY	4-23
NUMERIC FIELD SIZE GREATER THAN 15 - ASSUME 15	332	RPG	3-9
NUMERIC FILE DATA FOR STRING ITEM	94	BASIC Compiler	3-21
NUMERIC FUNCTION MUST FOLLOW TYPE DECLARATION	19	BASIC Interpreter	3-23
NUMERIC LITERAL AND ITS PICTURE DISAGREE	95	COBOL	3-4
NUMERIC LITERAL SPECIFIED FOR AN ALPHANUMERIC ITEM	143	COBOL	3-4
NUMERIC SEQUENCE (COL. 15-16) SPECIFIED FOR CHAINE	577	RPG	3-11
NUMERIC SPECIFICATION FOR STRING ITEM	75	BASIC Compiler	3-21
NUMERIC SYMBOL NOT ALLOWED		SPL	3-2
NUMERIC UPDATE ITEM FOR STRING DATA	45	BASIC Compiler	3-21
NUMERIC USAGE WITH NON-NUMERIC PIC. PIC 9 IS ASSUM	252	COBOL	3-4
NUMERIC VALUE ERROR		QUERY	4-11
NUMERIC VALUE ERROR		QUERY	4-16
NUMERIC VALUE ERROR		QUERY	4-19
NUMERIC VALUE ERROR - ITEM IGNORED		QUERY	4-24
NUMERIC VARIABLE MUST FOLLOW TYPE DECLARATION	18	BASIC Interpreter	3-23
OCCURS CLAUSE CANNOT BE SPECIFIED ON AN 01 OR 77	31	COBOL	3-4
OCCURS SUBJECT MUST BE THE ONLY KEY	43	COBOL	3-4
OCCURS...DEPENDING ON WITHIN RANGE OF ANOTHER OCCU	54	COBOL	3-4
OCCURS...DEPENDING ON MUST BE THE LAST ITEM IN A RE	226	COBOL	3-4
OLD FORMAT ON PROCEDURE FILE		QUERY	4-21
OMITTED PARAMETER	3	MPE Intrinsics	2-6
ONLY ALLOWED IN BREAK		MPE Commands	2-2
ONLY ONE RECORD ADDRESS FILE PER PROGRAM IS ALLOWE	242	RPG	3-8
ONLY ONE RIN CAN BE LOCKED	21	MPE Intrinsics	2-13
OPEN SERVICE NOT GRANTED	542	COBOL	3-5
OPERAND OF ,NOT, NOT LOGICAL	160	FORTRAN	3-3
OPERATION INDICATORS MISSING ON AN/OR LINE	631	RPG	3-12
OPERATION NOT RECOGNIZED	605	RPG	3-12
OPERATOR NOT IMPLEMENTED ON THIS VERSION OF RPG	652	RPG	3-12
OPTION ERROR		QUERY	4-23
OPTION FIELD (COLUMN 18) NOT BLANK OR 0 - ASSUME 0	520	RPG	3-11
OPTION SPECIFIED TWICE	57	BASIC Interpreter	3-22
OPTION/NUMBER FIELDS (COLUMNS 17-18) NOT BLANK FOR	514	RPG	3-11
OPTIONAL FILE MUST BE SEQUENTIAL	91	COBOL	3-4
OUT OF BOOTSTRAP DISC SPACE		CONSOLE	7-3
OUT OF DATA	0	BASIC Compiler	3-21
OUT OF DATA	12	BASIC Interpreter	3-25
OUT OF DISC SPACE		:RESTORE	2-15
OUT OF INPUT DATA	26	BASIC Interpreter	3-25
OUT OF MEMORY		CONSOLE	7-3

MESSAGE	CODE	SYSTEM	TABLE
OUT OF MEMORY	1	BASIC Interpreter	3-22
OUT OF MEMORY	90	BASIC Interpreter	3-23
OUT OF MEMORY	0	BASIC Interpreter	3-24
OUT OF MEMORY	0	BASIC Interpreter	3-25
OUT OF RANGE + OR - 1E-77 USED	81	BASIC Interpreter	3-22
OUT OF RANGE + OR - 1E-77 USED	35	BASIC Interpreter	3-23
OUT OF RANGE + OR - 1E77 USED	80	BASIC Interpreter	3-22
OUT OF RANGE + OR - 1E77 USED	34	BASIC Interpreter	3-23
OUT OF RANGE BRANCH		SPL	3-1
OUT OF SEQUENCE	48	FORTRAN	3-3
OUT OF SEQUENCE LINE NUMBER IN TEXT FILE (linenumb	43	EDIT	5-2
OUT OF SPACE IN 'MPE' FOR 'FREQ' FILE	77	BASIC Interpreter	3-22
OUT OF SPACE IN 'MPE' FOR 'INVOKE' FILE	51	BASIC Interpreter	3-25
OUT OF SPACE IN 'MPE' FOR COM FILE	43	BASIC Interpreter	3-24
OUT OF STACK FOR GLOBAL CROSS REFERENCE	214	FORTRAN	3-3
OUT OF SYSTEM DISC SPACE		CONSOLE	7-3
OUTMODED ROOT		IMAGE	4-8
OUTMODED ROOT FILE	-91	RPG	3-17
OUTMODED ROOT FILE		QUERY	4-13
OUTPUT ACCESS TO OUTPUT FILE UNAVAILABLE		BASIC Interpreter	3-22
OUTPUT FILE IS READ-ONLY	23	MERGE	5-7
OUTPUT FILE IS READ-ONLY ONLY	25	SORT	5-5
OUTPUT FILE NOT TYPE ASCII		BASIC Interpreter	3-22
OUTPUT FILE UNAVAILABLE		BASIC Interpreter	3-22
OUTPUT ONLY FILE	1	BASIC Interpreter	3-25
OVERFLOW		TRACE	5-9
OVERFLOW - RESULT = + OR - 1E77	59	BASIC Interpreter	3-25
OVERFLOW - RESULT = + OR - 32767	69	BASIC Interpreter	3-25
OVERFLOW IN EXPONENTIATE	707	COBOL	3-5
OVERFLOW INDICATOR IN COL. 33-34 PREVIOUSLY ASSIGN	230	RPG	3-8
OVERFLOW INDICATOR INVALID FOR AN EXCPT RECORD	732	RPG	3-13
OVERFLOW INDICATOR USED IS NOT ASSIGNED TO THIS FI	734	RPG	3-13
OVERFLOW LINE ENTRY IN COL. 20-22 INVALID OR GREAT	405	RPG	3-10
OVERFLOW LINE IN COL. 20-22 EXCEEDS FORM LENGTH IN	407	RPG	3-10
OVERSIZED LINE (linenumber)	12	EDIT	5-2
P,B,L OR R SPECIFIED (COLUMN 43) AND BLANK DECIMAL	322	RPG	3-9
P,B,L OR R SPECIFIED (COLUMN 55) AND BLANK DECIMAL	334	RPG	3-9
P,B,L, OR R (COL. 43) SPECIFIED FOR ALPHA FIELD -	580	RPG	3-11
P/B/L/R FIELD (COLUMN 43) INVALID - BLANK ASSUMED	318	RPG	3-9
P/B/L/R FIELD (COLUMN 55) INVALID - BLANK ASSUMED	328	RPG	3-9
PACKED NUMBER OVERFLOW	75	FORTRAN	3-3
PACKED/BINARY IN COL. 44 CANNOT APPEAR TOGETHER WI	754	RPG	3-13
PACKED/BINARY IN COL. 44 IS NOT BLANK FOR ALPHANUM	756	RPG	3-13
PAGE FIELD USED AS RESULT FIELD IS ALREADY REDEFIN	638	RPG	3-12
PAGE INVALIDLY REDEFINED - MUST BE NUMERIC WITH ZE	541	RPG	3-11
PARAMETER ADDRESS VIOLATION	5	MPE Intrinsic	2-6
PARAMETER END ADDRESS VIOLATION	6	MPE Intrinsic	2-6
PARAMETER ERROR		QUERY	4-23
PARAMETER ERROR		QUERY	4-25
PARAMETER ERROR		XRTGEN	6-1
PARAMETER IDENTIFIER NOT UNIQUE	227	FORTRAN	3-3
PARAMETER MUST START AT WORD BOUNDARY	118	COBOL	3-4
PARAMETER NOT ALLOWED		SPL	3-1
PARAMETER NOT OPTIONAL	21	MPE Commands	2-1
PARAMETER NUMBER INCOMPATIBLE		SPL	3-1
PARAMETER OUT OF BOUNDS	23	MPE Commands	2-1
PARAMETER OUT OF RANGE		SPL	3-1
PARAMETER OVERFLOW		SPL	3-1
PARAMETER VALUE INVALID	8	MPE Intrinsic	2-6
PARSED PARAM OF COMIMAGE>255 CHARACTERS	20	MPE Intrinsic	2-12
PARTIAL WORD ILLEGAL HERE		SPL	3-1
PARTIAL-WORD EXCEEDS 15 BITS	165	FORTRAN	3-3
PASSWORD ERROR		QUERY	4-13
PASSWORD TOO LONG		IMAGE	4-3

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PATTERN STRING NOT DEFINED		APL	3-29
PAUSE	45	MPE Intrinsic	2-5
PLOT: INVALID PEN PARAMETER	152	Compiler Library	5-16
PLOT: PLOTS NOT CALLED	151	Compiler Library	5-16
PLOTS: INVALID BUFFER SIZE	150	Compiler Library	5-16
POSITION BEYOND EOF ON WHILE FILE	65	EDIT	5-2
POSITION NOT FOUND	11	EDIT	5-2
POSITION OUT OF RANGE	17	SORT	5-5
POSITION OUT OF RANGE	16	MERGE	5-7
POSITIONING ERROR ON WHILE FILE (errorcode)	64	EDIT	5-2
PRECEDING OPERATOR WAS NOT A DIV	653	RPG	3-12
PREDEFINED FUNCTION HAS TOO FEW ARGUMENTS	82	BASIC Interpreter	3-23
PREDEFINED FUNCTION HAS TOO MANY PARAMETERS	81	BASIC Interpreter	3-23
PREDEFINED FUNCTION PARAMETER OF WRONG TYPE	80	BASIC Interpreter	3-23
PREMATURE JOB TERMINATION		MPE Commands	2-2
PREVIOUS LOOK-AHEAD FOR FILE	511	RPG	3-11
PREVIOUS RELOAD ABORTED; MUST RELOAD		CONSOLE	7-3
PREVIOUS TAPE COLD LOAD ABORTED: MUST COLD LOAD FROM TAP		CONSOLE	7-3
PRIMARY DB OVERFLOW		SPL	3-1
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PRINT	65	MPE Intrinsic	2-5
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PRINTFILEINFO	21	MPE Intrinsic	2-5
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PRINTOREPLY	67	MPE Intrinsic	2-5
PRIORITY ERROR		XRTGEN	6-1
PRIORITY OMITTED WHILE FATHER PROCESS IN MASTER Q	28	MPE Intrinsic	2-9
PRIORITY RANK RESERVED TO SUPERVISOR CAPABILITY	29	MPE Intrinsic	2-9
PRIVILEGED FILE VIOLATION	104	MPE Commands	2-1
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PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?		QUERY	4-11
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?		QUERY	4-12
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?		QUERY	4-15
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?		QUERY	4-16
PROC-FILE BUSY, DO YOU WISH TO WAIT (YES OR NO)?		QUERY	4-22
PROC-FILE NOT DECLARED		QUERY	4-10
PROC-FILE OVERFLOW, INPUT TERMINATED		QUERY	4-11
PROC-FILE OVERFLOW, INPUT TERMINATED		QUERY	4-12
PROC-FILE TOO LARGE		QUERY	4-21
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