

**VERSAdos Messages
Reference Manual**



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VERSAdos MESSAGES**REFERENCE MANUAL**

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CHAPTER 1**INTRODUCTION****1.1 SCOPE/PURPOSE**

This manual describes the error, warning, and status messages that occur in the VERSAdos environment (supporting all the Motorola-supplied utilities as well as the assembler and the Pascal language processors). Such messages occur at runtime, and are displayed normally on the terminal output device.

(Messages internal to assembly and compilation listings are treated separately in the appropriate user's/reference manual. Refer to paragraph 1.3.)

1.2 GENERAL

One type of message, described in Chapter 2, has a multi-field format. The message is output by the Error Message Handler (EMH). Three examples of these messages are:

```
DIR $0049 $00000100 FROM USR ** INVALID ENTRY

FREE $0049 $18000004 FROM FHS ** INVALID OR NONEXISTENT VOLUME
CMD= ASSIGN OPT=$0000 LU=1 VOLN=ARK

LIST $0049 $18000017 FROM FHS ** NONEXISTENT FILENAME
CMD= ASSIGN OPT=$0000 LU=1
FILE=FIX:240..FORCEM.SA
```

Other messages that occur are listed alphabetically in Chapter 3. Many of these messages are simple explanatory phrases, output either by the active task itself or by the EMH program. Examples of these messages are:

```
INVALID ENTRY

WARNING - COULD NOT COPY ffffffff

**FILENAME TOO LONG
```

Explanations are given when necessary.

1.3 RELATED DOCUMENTATION

The following publications may provide additional helpful information. If not shipped with this product, they may be obtained from Motorola Literature Distribution Center, 616 West 24th Street, Tempe, AZ 85282; telephone (602) 994-6561.

DOCUMENT TITLE	MOTOROLA PUBLICATION NUMBER
M68000 Family VERSAdos System Facilities Reference Manual	M68KVSF
VERSAAdos Data Management Services and Program Loader User's Manual	RMS68KIO
M68000 Family Real-Time Multitasking Software User's Manual	M68KRMS68K
M68000 Family Resident Structured Assembler Reference Manual	M68KMASM
M68000 Family Resident Pascal User's Manual	M68KPASC
RMS68K/VERSAAdos Table-Driven Task Initiator Reference Manual	M68KRMSTI
M68000 Family CRT Text Editor User's Manual	M68KEDIT
System Generation Facility User's Manual	M68KSYSGEN
SYMbug/A and DEbug Monitors Reference Manual	M68KSYMBG
M68000 Family Linkage Editor User's Manual	M68KLINK

CHAPTER 2**MULTI-FIELD EMH MESSAGE****2.1 MESSAGE FORMAT**

This type of message is generated by the EMH program, resulting from a condition encountered either in another task or in the EMH program itself. It is comprised of multiple fields of information, printed on at least one line (the header), and possibly additional lines.

One form of the message may be user-generated -- FROM USR. This is described in the Error Message File Generator Program (EMFGEN) and the EMH sections of the M68000 Family VERSAdos System Facilities Reference Manual.

2.1.1 The Header Line

The fields occurring in the header line are:

```
<task> $<session> $<binary key> <origin> ** <phrase>
```

where:

<task>	is the name of the active task that issued the task call to EMH.
<session>	is the hexadecimal session number assigned when logging on the system.
<binary key>	is the hexadecimal value in D0, which normally is an entry into the ERRORMSG.SY file (Appendix E). Refer to paragraph 2.1.1.1.
<origin>	is one of the following entries, indicating where the error condition was originally encountered: FROM SVC A server task (TRAP #1) error. FROM IOS An Input/Output Services (IOS) (TRAP #2) error. FROM FHS A File Handling Services (FHS) (TRAP #3) error. FROM LDR A Loader (TRAP #4) error. FROM USR A user task error.

<phrase> is usually an explanatory phrase describing the error condition.

If <phrase> has the form:

EMHzz \$xxxxxxx

it signifies that EMH had difficulty in expanding the <binary key>.

The variable field zz is one of the entries in Appendix D. xxxxxxx is a <binary key> generated by EMH.

Like the first <binary key> field, it should be one of the entries found in Appendix E. However, since much of the sentinel expansion in this table is dynamic, a full description of the error at this time may not be possible.

An example of the header line is:

```
DIR $0049 $00000100 FROM USR ** INVALID ENTRY
```

where:

DIR is the <task>
0049 is the <session>
00000100 is the <binary key>
FROM USR is the <origin>
INVALID ENTRY is the <phrase>

2.1.1.1 The Binary Key. The <binary key> is the value passed to EMH in D0. It is a key into the ERRORMSG.SY file (refer to Appendix E, and the EMFGEN command description in the M68000 Family VERSAdos Facilities Reference Manual).

A <binary key> of the form 08yynnzz is a TRAP #1 related message of VERSAdos Task Management. Appendix I lists all the Task Management messages, although some may be interpreted by EMH through the ERRORMSG.SY file (refer to Appendix E).

Tasks are assigned <binary key>s in the following ranges:

00000000-000002FF	Utilities
00000300-000004FF	Session management
00000500-000006FF	SYMbug
00001000-00002FFF	Pascal runtime
00008000-0000FFFF	User-generated
01000000-FFFFFFFF	VERSAdos operating system

2.1.2 Lines After The Header

Each line following the header may again be comprised of multiple fields. Each field contains an acronym/abbreviation and an equal sign (=), followed by a subfield of variable information. The acronyms/abbreviations and variable information are identified as:

A0=	<parameter block address>	
BUFF=	<buffer address>	
CMD=	<FHS/IOS command>	(Refer to the description of CODE and FUNCTION fields for FHS and IOS parameter blocks, in the VERSAdos Data Management Services and Program Loader User's Manual.)
DEVICE=	<device name>	
FILE=	<file descriptor>	
LU=	<logical unit number>	(Refer to Table 2-1.)
OPT=	<parameter block options>	(Refer to the description of OPTIONS field for FHS and IOS parameter blocks, in the VERSAdos Data Management Services and Program Loader User's Manual.)
PSN=	<physical sector number>	
RA=	<chain pseudo-register>	
RD=	<chain pseudo-register>	
RECL=	<record length>	

RRN= <random record number>
RX= <chain pseudo-register>
SESSION= <login session number>
SIZE= <field length>
TASK= <taskname>
TERMINAL= <terminal device name>
USE DEFAULT VOLUME= <volume name>:<user number>.<catalog name>
USER= <user number>
USER NUMBER= <user number>
USER TASK= <taskname>
VOLN= <volume name>

2.2 EXAMPLES

The following command line and message sequence:

```
=LIST ABCD.LS  
LIST $00C6 $18000017 FROM FHS ** NONEXISTENT FILENAME  
  CMD= ASSIGN OPT=$0000 LU=1  
  FILE=FIX:14..ABCD.LS
```

=

means that during session C6 the FHS returned to the LIST task a binary key of 18000017, that is interpreted as "NONEXISTENT FILENAME." FHS attempted to ASSIGN the FIX:14..ABCD.LS file to logical unit 1 with the specified options.

The following command lines and message sequence:

```
=DUMP ERRORMSG.SY;I  
DUMP VERSION 011882 3  
> D 1234  
DUMP $0015 $100000C2 FROM IOS ** END OF FILE  
  CMD= READ OPT=$6048 LU=1  
>
```

means that during session 15 the IOS attempted to read sector 1234 from the ERRORMSG.SY file that is assigned to logical unit 1. IOS returned to the DUMP task a binary key of 100000C2 that is interpreted as accessing a sector beyond "END OF FILE" for ERRORMSG.SY.

TABLE 2-1. Logical Unit Assignments

COMMAND	LUN	ASSIGNMENT
ACCT	1	Input device/owner file.
	2	Password file.
	6	Terminal output.
BACKUP	1	Input device/volume.
	2	Output device/volume or file on that volume.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
BUILDS	1	Input file: load module from which S-records are being built.
	2	Output file: file of S-records being built.
	6	Terminal or batch listing output.
CONFIG	1	Logon device.
	2	Configured device.
	3	Printer.
	5	Terminal input.
	6	Terminal output.
CONNECT	5	Terminal input.
	6	Terminal output.
CREF	1	Input file #1.
	2	Input file #2.
	3	Output file.
	5	Terminal input.
	6	Terminal output.
COPY	1	Input file.
	2	Output file.
	3	List file/device.
	4	Volume assignment (family copy only).
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
DEBUG	3	List device.
	4	Remote CRT (user task).
	5	Terminal input.
	6	Terminal output.
DEL	1	Input file.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.

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TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
DIR	1	Disk input file/device.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
DISPATCH	(none)	
DMT	1	Device being dismounted.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
DUMP	1	Input file.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch log output.
DUMPANAL	3	List file/device.
	5	Terminal input.
	6	Terminal output.
EMFGEN	5	Terminal input.
	6	Terminal output.
	7	ERRORMSG.SY file.
	8	ERRORMSG.SA file.
FREE	1	Volume.
	3	List file/device.
	6	Terminal output.
INIT	2	Output to disk being initialized.
	4	Input from boot file being copied to disk being initialized.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
LIB	1	Input file.
	2	Internal working file.
	3	List file/device.
	4	Internal working file.
	5	Terminal input.
	6	Terminal output.
LIST	1	Input file.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.

TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
MBLM	1	Input file #1.
	2	Input file #2.
	3	Input file #3.
	4	Input file #4.
	5	Terminal input.
	6	Terminal output.
	7	Output file.
MERGEOS	5	Terminal input.
	6	Terminal output.
MIGR	1	Input file/device.
	2	Output file.
	5	Terminal input.
	6	Terminal output.
MT	1	Device being mounted.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
NOVALID	1	Password file.
PATCH	1	Input file.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
PRTDUMP	1	Dump file under analysis.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
RENAME	1	Input/output filename.
	3	List file/device.
	4	Volume assignment (family rename only).
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
REPAIR	1	Input volume/device.
	2	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
SCRATCH	2	Disk assignment.
	3	List device (always the terminal).
	5	Terminal input.
	6	Terminal output.

TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
SESSIONS	6	Terminal output.
SNAPSHOT	1	Terminal from which to print.
	2	Terminal/printer on which to print.
SPL	1	Queue file (SPLQUEUE.SQ). Always assigned while SPL is running.
	2	Temporary output file during assignment.
	3	Output file (used by the spawned task).
	3	Temporary output file during close and print operations.
	4	Output device (used by the spawned task).
	4	Output device during processing of retrieve attributes call.
	7	Output device (sent to SPL from SPOOL) for the queue.
SPOOL	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
SRCCOM	1	Input file #1.
	2	Input file #2.
	3	Output file.
	5	Terminal input.
	6	Terminal output.
SYSANAL	3	List device/file.
	5	Terminal input.
	6	Terminal output.
SYSGEN	1	Command file.
	2	Temporary output file.
	3	Boot file, substitution file, link file, or load module for task/process.
	4	List device/file.
	7	New substitution file.
TASKDUMP	3	Output file for task dump.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
TDTIGEN1	2	Input file.
TRANSFER	1	Host port input/output.
	4	File input/output.
	5	Home port input/output.
	6	Terminal output.

TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
TTGEN	2	Menu input file.
	3	Output file.
	4	.LO file.
	5	Terminal input.
	6	Terminal output.
UPLOADS	1	File input/output.
	5	Terminal output.
VALID	1	Password file.

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CHAPTER 3

ADDITIONAL MESSAGES

3.1 GENERAL

Other messages that occur -- that is, other than those of the form described in Chapter 2 -- are listed and explained in this chapter. These same messages are also listed according to issuing task, in Appendix A. They are usually output directly by the active task, although they may be output by EMH through a trap call from the active task.

A variable field is shown in the following list of messages as a repetition of a lowercase letter. The meaning of each variable is found in the description to the right of a message. Normally, the letters a through w represent alphanumeric variables, and the letters x, y, and z represent numeric variables. The repetition of a letter shows the maximum size of that variable field (except where otherwise stated). For example, tttt represents a taskname whose maximum size is four characters. Some variable representations are:

ccccccc	catalog name
fffffff	file/command name
ssss	session number
tttt	taskname
uuuu	user number
vvvv	system default volume, or user default volume

Some of the messages use acronyms and abbreviations defined as:

ASQ	Asynchronous Service Queue
CDF	=5 -- the keyboard Logical Unit Number (LUN)
CRC	Cyclic Redundancy Check
DB	Data Block (block of sequential records), variable length
EMH	Error Message Handler program
EOF	End of File
EOR	End of Record
FAB	File Allocation Block (list of data blocks), variable length
FHS	File Handling Services
IO	Input/Output
IOS	Input/Output Services
LU	Logical Unit
MSG	Message
PC	Program (location) Counter
PDB	Primary Directory Block (list of filenames), 4 sectors in length
PSN	Physical Sector Number
RA	Pseudo-register in chain processing
RD	Pseudo-register in chain processing
RX	Pseudo-register in chain processing
SAT	Sector Allocation Table, variable length
SDB	Secondary Directory Block (list of catalogs), 1 sector in length
SLS	Lockout Sector
SLT	Sector Lockout Table
TCB	Task Control Block
TST	Diagnostic Test Table
USM	User Session Management
VID	Volume Identification Block, always sector 0, 1 sector in length

The following messages are listed in alphabetic order and, where appropriate, are followed by a brief explanation. Messages beginning with a non-alphabetic character are located at the beginning of the listing, and messages beginning with a variable are located last in the listing. All messages are shown in uppercase; however, as seen on a display screen or printer, many messages are in lowercase and uppercase.

The name in square brackets is the task that originated the message; for example, [USM] is the User Session Management, [E] is the CRT Editor, and [DIR] is the directory utility.

```

(+INFINITY) + (-INFINITY) IN AFFINE MODE [PASCAL]
-----> BREAK! [USM]
----->CAUTION: YOU WILL CHANGE PASSWORD [USM]
FOR USER = 0 <-----
}---> tttt ATTACHED [SYMBUG]
0 * INFINITY [PASCAL]
2 LOGICAL UNITS NOT AVAILABLE [E] Editor exited.
*STATUS* CHECKSUM ERROR nnnn... [UPLOADS] Possible loss of data.
nnnn... are the first ten
characters of S-record in error.
*STATUS* NO ERROR SINCE LAST STATUS [UPLOADS] Status; ready to
continue.
*STATUS* NO ERROR SINCE START OF PROGRAM [UPLOADS] Status; ready to
continue.
*STATUS* NON HEX DIGIT FOUND nnnn... [UPLOADS] Possible loss of data.
nnnn... are the first ten
characters of S-record in error.
*STATUS* RECORD LENGTH ERROR nnnn... [UPLOADS] Possible loss of data.
nnnn... are the first ten
characters of S-record in error.
**BUFFER ERROR** [MBLM] No free memory available.
**COMMAND LINE ERROR** [MBLM]
**DUPLICATE PARAMETER [SYSGEN] A parameter can be
defined only once.
**ERROR** FILE DOES NOT START WITH "S0" [UPLOADS] File error. Program
stopped.
**ERROR**DUPLICATE FILENAME** [MBLM] Output file already exists.
REUSE FILE (Y/N?) Enter Y or N.
**ERROR xxx - mmmm [LINK] xxx is an entry in Appendix
G; mmmm is a descriptor of the
error.
**FILE HANDLING ERROR** LUN = n, [MBLM] n is the LUN, and zz is an
STATUS = $zz entry in Appendix C, Table C-1.
**FILENAME MISSING [SYSGEN] Filename not specified on
PROCESS, TASK, SUBS, LINK, or ASM
command.

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****FILENAME TOO LONG** [SYSGEN] Filename specified in the **SUBS** command line was more than seven characters.

****INPUT/OUTPUT ERROR** LUN = n, STATUS = \$zz** [MBLM] n is the LUN, and zz is an entry in Appendix C, Table C-2.

****INVALID FILE DESCRIPTOR** [SYSGEN] Filename not in proper format on **PROCESS**, **TASK**, **SUBS**, **LINK**, or **ASM** command.

****INVALID FILE TYPE** [SYSGEN] The file specified in a **SUBS** command was contiguous, or an existing substitution file (X file) had a file type different from the original.

****INVALID LINK STATEMENT** [SYSGEN] First record of <link file> did not contain "LINK" or "=LINK" as first part of record.

****INVALID PARAMETER** [SYSGEN] Parameter name is not two to eight alphanumeric characters (including ".", "\$", and "&").

****INVALID SEGMENT NAME** [SYSGEN] Segment name on **EXCLUDE** or **SEGMENT** command line was not two to four alphanumeric characters (including "&", ".", or "\$").

****INVALID STATE OR ATTRIBUTE** [SYSGEN]

****INVALID TASKNAME** [SYSGEN] Taskname on the **TASK** command line was not two to four alphanumeric characters (including "\$", ".", and "&").

****INVALID VALUE** [SYSGEN] Parameter not in valid form (hex, decimal, or string).

****NEW PC LESS THAN OLD** [SYSGEN] The **SYSGEN** location counter cannot be changed to a value less than its current value.

****NEW PC MUST BE ON PAGE BOUNDARY** [SYSGEN] The <number> specified on the **PC** command line was not a 256-byte boundary.

****NO SEGMENTS PROCESSED** [SYSGEN] No segment found on execution of a **TASK** or **PROCESS** command line. (Can result from excluding all segments of a task or process.)

NOTE EMPTY FILE, NO PREVIOUS RECORDS	[UPLOADS] Status; ready to continue.
NOTE NO S9 RECORD ON EXISTING FILE	[UPLOADS] Status; ready to continue.
OUTPUT DISK FULL CONTINUE (Y/N)?	[BACKUP] During a file-by-file backup, the output disk was filled. The partially copied file was deleted from the output disk and the user is given the opportunity to continue the backup onto another disk.
**PC=\$xxxxxxxx	[SYSGEN] xxxxxxxx is the new value of location counter after execution of a PC command line.
S-RECORD ERROR	[MBLM] Error in input record content.
**SUBSTITUTION RECORD TOO BIG	[SYSGEN] Values substituted for parameters resulted in a record larger than 256 bytes.
**SYNTAX ERROR	[SYSGEN]
**TOO MANY EXCLUDED SEGMENTS	[SYSGEN] A maximum of four EXCLUDE commands per task or process is allowed. Excess EXCLUDE commands are ignored.
**VALUE TOO BIG	[SYSGEN] Value for USER or PRIORITY parameter too large.
**WARNING xxx - mmmm	[LINK] xxx is an entry in Appendix H; mmmm is a descriptor of the warning.
**ffff SEGMENT NOT FOUND	[SYSGEN] Filename ffff, specified on EXCLUDE or SEGMENT command line, was not found in corresponding task, process, or load module.
**nnnnnnnn NOT DEFINED	[SYSGEN] nnnnnnnn is a parameter encountered in a substitution file that was not previously defined. SYSGEN substitutes the value of zero.
*** ERROR *** CHOICE NOT MODIFIABLE	[CONFIG]
*** ERROR *** DEVICE NAME MUST BE PRECEDED BY THE POUND SIGN, "#"	[CONFIG]

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*** ERROR *** INVALID DEVICE NAME [CONFIG]
*** ERROR *** INVALID SELECTION [CONFIG]
*** ERROR *** ONLY USER 0 CAN PERFORM A CONFIGURE DEFAULTS [CONFIG]
*** ERROR *** ONLY USER 0 CAN RECONFIGURE #xxxx [CONFIG]
*** ERROR *** #xxxx CANNOT BE RECONFIGURED UNTIL THE SPOOLER IS DEACTIVATED [CONFIG]
*** ERROR *** #xxxx DOES NOT EXIST [CONFIG]
*** ERROR *** xxxxx : VALUE OUT OF RANGE [CONFIG]
*** ERROR *** xxxxx IS AN INVALID BAUD RATE [CONFIG]
*** NOTE *** PRINT COMMAND EXECUTED [CONFIG]
*** NOTE *** #xxxx HAS BEEN CONFIGURED [CONFIG]
*** NOTE *** #xxxx IS READY FOR CONFIGURATION [CONFIG]
*** SORRY *** DEVICE TYPE IS NOT DEFINED [CONFIG]
*** SORRY *** #xxxx CANNOT BE CONFIGURED [CONFIG]
*** SORRY *** #xxxx CANNOT BE RECONFIGURED UNTIL MORE MEMORY IS FREED [CONFIG]
*** SORRY *** #xxxx IS BUSY [CONFIG]
*** SORRY *** #xxxx IS BUSY AND CANNOT BE RECONFIGURED AT THIS TIME [CONFIG]
*** SORRY *** #xxxx NOT READY OR POSSIBLY NOT THERE [CONFIG]
***** NO FILE NAME DEFINED FOR ENTRY [TTGEN]

A DISK IS ALREADY MOUNTED ON THE DEVICE	[MT]
ADDITIONAL PARAMETER(S) NEEDED	[SYMBUG]
ADDRESS ENTERED IS INVALID	[SYMBUG]
ADDRESS ERROR - BAD POINTER OR STACK/HEAP OVERFLOW	[PASCAL]
ADDRESS MUST BE EVEN	[SYMBUG]
ADDRESS RANGE ENTERED IS INVALID	[SYMBUG]
ADDRESS xxxxxx	[PRTDUMP] The address xxxxxx is not in the logical address range of any of the task's segments.
ALLOCATED FILE RESTOREA.CF BUT UNABLE TO ASSIGN IT	[TDTIGEN1]
AN ARGUMENT WAS A TRAPPING NOT-A-NUMBER	[PASCAL]
ASQ ERROR D0=xx0000zz	[E] Terminates Editor - unable to allocate an ASQ. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry Table C-2.
ASSEMBLY LANGUAGE SYNTAX ERROR	[PATCH]
ATTACH NOT ALLOWED	[DEBUG] Task is not a loaded DORMANT user task. If after AP, the printer is already attached.
ATTEMPT TO ENABLE 6809 FLOATING POINT TRAP	[PASCAL]
ATTEMPT TO SET 6809 FLOATING POINT EXCEPTION	[PASCAL]
ATTEMPT TO SET 6809 FLOATING POINT PRECISION MODE	[PASCAL]
ATTEMPT TO TAKE NAN(0)	[PASCAL]
ATTRIBUTES NOT THE SAME FOR OVERWRITE	[COPY] Files must have same file type.
BAD CHARACTER COUNT RECEIVED EXPECTED - RETRANSMITTING	[TRANSFER]
BAD CHECKSUM RECEIVED EXPECTED - RETRANSMITTING	[TRANSFER]
BAD FILE NAME ENTERED - REENTER NAME OR 'Q' TO QUIT	[TRANSFER]

BAD MODULE NAME	[LIB] Improper module name.
BAD PARM BLOCK	[DEBUG] TRAP #1 related error. System problem, except for MD which uses console-supplied arguments for call. Verify that supplied values are in the program address range.
BAD STATUS CMD. FROM IPC = \$xxxx	[IPL]
BAD STATUS FROM EXTERNAL DISKIO ROUTINE = \$xxxx	[IPL]
BAD STATUS FROM IPC = \$xxxx	[IPL]
BAD TARGET TASK	[DEBUG] Refer to "BAD PARM BLOCK".
BATCH JOB ssss CANCELLED	[USM]
BATCH SESSION NOT FOUND	[USM]
BINARY-TO-DECIMAL OR DECIMAL-TO-BINARY CONVERSION OUT OF RANGE	[PASCAL]
BOF OR EOF ENCOUNTERED	[E] Beginning-of-file or end-of-file encountered. Continue.
BOOLEAN EXPECTED IN TEXT FILE	[PASCAL]
BOOT COMPLETE	[IPL]
BOOT FILE ERROR	[SYSGEN] Invalid boot filename; device name entered; or additional output files specified.
BOOT IN PROGRESS	[IPL]
BOTH PROTECTION CODES ARE REQUIRED	[RENAME] Reenter the command, specifying protection codes for both input and output field filenames.
BREAK KEY! -	[REPAIR]
BREAK WAS INPUT	[E] BREAK key was pressed during page or command execution - Editor goes to command mode.
BREAKPOINT TABLE FULL	[DEBUG] Delete one of existing ten breakpoints.
BREAKPOINTS LOCKED IN EXECUTION	[DEBUG] Use STOP command to halt execution.

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BUFFER ADDRESS WRONG	[DEBUG] TRAP #1 related error. System problem, except for MD which uses console-supplied arguments for call. Verify that supplied values are in the program address range.
BUFFER OVERFLOW ERROR	[MIGR] An internal error in the program caused by a record too large to handle.
BUS ERROR - BAD POINTER OR STACK/HEAP OVERFLOW	[PASCAL]
BUS ERROR ACCESSING RAM - INITIALIZE RAM AND TRY AGAIN	[IPL]
CAN'T ASSIGN "ffffffff"	[TTGEN]
CAN'T LIST A CONTIGUOUS FILE	[LIST]
CAN'T LIST A DEVICE	[LIST] A device name is illegal in the input field of the command line.
CAN'T READ FILE "ffffffff" STATUS = \$xxxxxxx	[TTGEN]
CANNOT ATTACH A SYSTEM TASK	[SYMBUG]
CANNOT ENTER LOCKOUT ENTRIES ON A FOREIGN DISK	[INIT] The user is trying to enter entries into the SLT on a non-EXORmacs disk.
CANNOT HANDLE BREAKS	[DEBUG] System problem -- BREAK key will abort program.
CANNOT HANDLE BREAKS DO=xx0000zz	[E] Editor cannot handle BREAK key during this edit session - continues with Edit. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.
CANNOT LOCKOUT SECTORS IN TRACK ZERO, ENTRY NOT ALLOWED	[INIT] This check has been installed to prevent the corruption of the SAT during INIT operation. If it is imperative to lockout this block, the S option will permit this. However, performance will be affected.

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CANNOT USE S OPTION ON A FLOPPY	[INIT] The user is attempting to enter lockout entries on a floppy diskette that does not have an SLT.
CASE INDEX OUT OF RANGE	[PASCAL]
CDF NOT ASSIGNED	[REPAIR]
CHARACTERS ENTERED EXCEEDED BUFFER SIZE	[SYMBUG]
CLOSE ERROR D0=xx0000zz	[E] File not closed; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.
COMMAND ABORTED BY BREAK KEY	[E] BREAK key was pressed during PRINT or FIND command. Refer to command descriptions for action.
COMMAND ENTERED IS NOT [YET] SUPPORTED	[SYMBUG]
COMMAND ERROR	[MIGR]
COMMAND LINE ERROR	[E, MERGEOS, REPAIR, TRANSFER]
COMMAND NOT VALID YET	[SYMBUG]
CONFIGURATION ERROR -- xxxxxxxx	[INIT] The user has attempted to configure a disk/diskette that resulted in an error.
CONFIGURATION ERROR CODE \$xx	[MT] The hex error code meaning is described in the VERSAdos Data Management Services and Program Loader User's Manual.
CONVERSION OF A NOT-A-NUMBER TO AN INTEGER	[PASCAL]
CRC ERROR ON READ xxxx, PSN = xxxxxxxx, dddd, xxxx	[REPAIR]
DATA OVERRUN I/O ERROR	[E] Screen I/O error - Editor rewrites current page to screen and goes to command mode.
DELETE ERROR D0=xx0000zz	[E] Save files; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.
DETACH NOT ALLOWED	[DEBUG] Printer is already detached.

DEVICE NAME ERROR	[MIGR]
DIVISION BY ZERO	[PASCAL]
DMPA: BREAK RVCD!!	[DUMPANAL]
DMPA: DISK READ ERROR - DO = xxxxxxxx	[DUMPANAL]
DMPA: ERROR WRITING TO OUTPUT DEVICE - DO = xxxxxxxx	[DUMPANAL]
DMPA: MEMORY NOT AVAILABLE FOR BUFFERS	[DUMPANAL]
DMPA: OUTPUT DEVICE ASSIGNMENT ERROR - DO = xxxxxxxx	[DUMPANAL]
DMPA: REENTER OUTPUT DEVICE NAME >	[DUMPANAL]
DMPA: TASK NOT FOUND	[DUMPANAL]
DUPLICATE FILE - OK TO COPY (Y/N/Q) ?	[BACKUP]
DUPLICATE FILENAME - REUSE (Y/N)?	[MIGR] Enter Y to overwrite file.
END OF MEMORY IMAGE REACHED	[PATCH]
END OF SECTOR REACHED	[DUMP] A change or display was attempted with the M subcommand, which specifies a byte offset greater than \$FF.
EOF ERROR	[MIGR] An early EOF on input.
ER: "IF" LEVEL EXCEEDED	[USM]
ER: "ffffffff" COMMAND NOT FOUND	[USM]
ER: "vvvv" VOLUME NOT FOUND	[USM]
ER: =/ENDIF'S EXCEED =/IF'S	[USM]
ER: ACCESS PERMISSION	[USM]
ER: BAD FAB BACKWARD LINK, PSN = xxxxxxxx	[REPAIR]
ER: BAD FAB CONTENTS	[REPAIR]
ER: BAD FAB FORWARD LINK, PSN = xxxxxxxx	[REPAIR]
ER: BAD TEST PATTERN	[REPAIR]
ER: BATCH NOT ALLOWED IN BATCH MODE	[USM]
ER: BATCH QUEUE FULL	[USM]

ER: BATCH SESSION NUMBER [USM]
ER: CANNOT BE CONTINUED, MUST BE STARTED [USM]
ER: CATALOG NAME [REPAIR]
ER: CHAIN COMMAND SYNTAX [USM]
ER: CHECKSUM [REPAIR]
ER: COMMAND SYNTAX [USM]
ER: DB KEY ORDER, PSN = xxxxxxxx [REPAIR]
ER: DB PSN ERROR, PSN = xxxxxxxx,
LENGTH = xxxxxxxx [REPAIR]
ER: DB SIZE = xx [REPAIR]
ER: DEFAULT VOLUME NOT CHANGED [USM]
ER: DEVICE NOT ALLOWED [USM]
ER: DISK NOT A VERSADOS VOLUME [REPAIR]
ER: DUMP AREA PSN ERROR [REPAIR]
ER: EMPTY FAB, PSN = xxxxxxxx [REPAIR]
ER: EMPTY FILE - LAST FAB PSN NOT 0 [REPAIR]
ER: EOF/EOR AND FAB/DB CONFLICT [REPAIR]
ER: EXTENSION [REPAIR]
ER: FAB SIZE = xx [REPAIR]
ER: FAB USAGE FRACTION [REPAIR]
ER: FAB/DB KEY CONFLICT (L, F, or H) [REPAIR]
ER: FAB/DB RECORD CONFLICT, PSN = xxxxxxxx [REPAIR]
ER: FAB/DB SECTOR CONFLICT, PSN = xxxxxxxx [REPAIR]
ER: FDB SIZE = xx [REPAIR]
ER: FIELD SIZE EXCEEDED [USM]
ER: FILE ATTRIBUTE [REPAIR]
ER: FILENAME [REPAIR]
ER: FILE NOT FOUND [REPAIR]

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ER: FILE WAS NOT ASSIGNED [USM]
ER: FILE/DEVICE MISSING [USM]
ER: INVALID FILE DESCRIPTOR [USM]
ER: INVALID LU NUMBER [USM]
ER: INVALID TASKNAME [USM]
ER: INVALID USER NO. [USM]
ER: KEY SIZE = xx (I, D, S, H, or E) [REPAIR]
ER: LAST DB SIZE [REPAIR]
ER: LOGON TERMINAL NOT AVAILABLE IN BATCH MODE [USM]
ER: LUN nn NOT ASSIGNED [USM]
ER: MUST BE IN CHAIN MODE [USM]
ER: MUST BE STARTED INDIVIDUALLY BY TASK NAME [USM]
ER: NESTING LEVEL EXCEEDS NO. LUNS PER TASK [USM]
ER: NO CHANGE TO VOLUME, USER NUMBER, OR CATALOG [USM]
ER: NO FAB LINKS [REPAIR]
ER: NO ROOM IN RETURN STACK SPACE (TOO MANY ARGUMENTS) [USM]
ER: NO. ARGUMENTS EXCEEDS STACK SPACE [USM]
ER: NOT ALLOWED IN BATCH MODE [USM]
ER: NOT ALLOWED ON LINE, SUBMIT IN BATCH MODE [USM]
ER: NOT USER = 0 [USM]
ER: NUMERICAL CONVERSION ERROR [USM]
ER: OPTION LETTERS ARE A-0 ONLY [USM]
ER: RECORD LENGTH = xxxx [REPAIR]
ER: RECORD NOT FOUND [USM]

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ER: SAT LENGTH = xxxxxxxx [REPAIR]
ER: SAT PSN = xxxxxxxx [REPAIR]
ER: SDB PSN = xxxxxxxx [REPAIR]
ER: SLS PSN BAD [REPAIR]
ER: SLT PSN ERROR [REPAIR]
ER: TASK NOT FOUND [USM]
ER: TST PSN ERROR [REPAIR]
ER: UNUSED SECTORS MARKED ALLOCATED IN SAT [REPAIR]
ER: USER, CATALOG NAME CONFLICT,
PSN = xxxxxxxx [REPAIR]
ER: USER NO. NOT FOUND [USM]
ER: USER NUMBER NOT FOUND [USM]
ER: VALUE SIZE TOO BIG [USM]
ER: VALUES REVERSED [USM]
ER: VOLUME DESCRIPTOR [REPAIR]
ER: VOLUME NAME [REPAIR]
ER: YOU FAILED IN YOUR ATTEMPT TO
CRASH THE SYSTEM [USM]
ER: dddd LINK, PSN = xxxxxxxx [REPAIR]
ER: dddd NOT ALLOCATED IN SAT,
PSN = xxxxxxxx [REPAIR]
ER: dddd REALLOCATED AFTER FILE DELETED,
PSN = xxxxxxxx [REPAIR]
ER: dddd RESERVED FIELD NOT ZERO,
PSN = xxxxxxxx [REPAIR]
ER: dddd SPACE ALREADY ALLOCATED,
PSN = xxxxxxxx [REPAIR]
ERROR (READ OR WRITE) PROTECTION CODE [RENAME] File protection code is
either missing or entered
incorrectly.
ERROR FROM WRITE, STARTING PSN = xxxxxxxx [REPAIR]

ERROR IN COMMAND LINE... nnnn...	[UPLOADS] Output parameter error. nnnn... are the first 30 characters of command line.
ERROR IN FILE SPECIFICATION	[IPL] The format of the filename was incorrect.
ERROR IN OPTION FIELD	[IPL] A non-ASCII character was found in the option field.
ERROR IN READ OF "&.RESTOREA.CF" FILE	[TDTIGEN1]
ERROR IN WRITE OF "&.RESTOREA.CF" FILE	[TDTIGEN1]
ERROR SECTOR ALLOC TABLE EXCEEDED	[INIT] Internal error.
ERROR TRAP x ERROR CODE: yzzz	[DEBUG] x is a TRAP number; zz is an entry in Appendix C.
ERROR WRITING TO OUTPUT FILE, STATUS = xxxxxxxx	[TTGEN]
ERROR-CHANGE ACCESS DO=xx0000zz	[E] Internal error - attempt failed to change access to public read/write for logical unit 5; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.
ERROR-CHECK FOR *TEMPLIB.RO*	[LIB] The error occurred before creation of the new library. The file TEMPLIB.RO contains the library. Rename to library name.
ERROR-END OF FILE NOT REACHED	[COPY] Possible system error or bad file. Delete output file, then copy again.
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME	[COPY, DUMP, LIST] Change output filename and reenter.
ERROR-INPUT DISK FOREIGN AND OUTPUT DISK LARGER	[BACKUP] If the input disk is foreign (either it is not in VERSAdos format or another volume of the same name was mounted before it) and the output disk is larger than the input disk, a track-by-track backup cannot be done.
ERROR-INPUT FILE IS NOT A LOAD MODULE	[BUILDS] Input file is not a valid load module in VERSAdos format.
ERROR-INPUT FILE MUST HAVE EXTENSION .LO OR .SY	[BUILDS]

ERROR-IOS CALL D0=xx0000zz

[E] Screen I/O error; files saved and Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.

ERROR-MERGE NOT EXECUTED

[E] System error.

ERROR-MUST USE A OPTION

[BACKUP] A backup between hard disks requires the A option (and its modifiers).

ERROR-NO INPUT FILE WAS SPECIFIED

[BUILDS]

ERROR-OPTION A OR R BACKUP WITH FOREIGN DISK

[BACKUP] Neither disk may be foreign with an option A backup, and the input disk may not be foreign with an option R backup.

ERROR-OUTPUT DISK TOO SMALL

[BACKUP] A track-by-track backup, or verify, from a larger disk to a smaller disk is not permitted.

ERROR-READ > PROTECTION CODE

[RENAME] The wrong protection code was used (or none when one is required).

ERROR-RETRIEVE ATTRIBUTES D0=xx0000zz

[E] Internal error - attempt failed on FHS RETRIEVE attributes for console call; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.

ERROR-USE INIT COMMAND, THEN BACKUP WITH A OPTION

[BACKUP] An R option back-up to a hard disk is illegal.

ERROR-USE & CATALOG NOT ALLOWED WITH TRACK-BY-TRACK COPY OR VERIFY

[BACKUP]

ERROR-WRITE > PROTECTION CODE

[RENAME] The wrong protection code was used (or none when one is required).

ERROR: INVALID PRODUCT CATALOG VALUE

[TDTIGEN1]

ERROR: INVALID SYSTEM TYPE

[TDTIGEN1]

ERROR: INVALID USER NUMBER VALUE

[TDTIGEN1]

ERROR: INVALID VOLUME NAME

[TDTIGEN1]

ERROR: PRODUCT CATALOG EXCEEDS EIGHT CHARACTERS

[TDTIGEN1]

ERROR: SYSTEM TYPE EXCEEDS ONE CHARACTER	[TDTIGEN1]
ERROR: USER NUMBER EXCEEDS FOUR CHARACTERS	[TDTIGEN1]
ERROR: VOLUME NAME EXCEEDS FOUR CHARACTERS	[TDTIGEN1]
EVEN ADDRESS IS REQUIRED	[SYMBUG]
EVENT NOT SENT	[DEBUG] System problem -- bad taskname if TASK command.
EXPRESSION ENTERED IS INVALID	[SYMBUG]
FAILED TO ASSIGN LUN TO TASK	[SYMBUG]
FAILED TO CHANGE TASK STATUS	[SYMBUG]
FHS/IOS ERROR zz AT xxxx	[UPLOADS] zz is an entry in Appendix C. xxxx is the address of call to FHS or IOS (internal use).
FILE #1 NAME MISSING!	[SRCCOM]
FILE #1 ('ffffffff') DOES NOT EXIST!	[SRCCOM]
FILE #2 NAME MISSING!	[SRCCOM]
FILE #2 ('ffffffff') DOES NOT EXIST!	[SRCCOM]
FILE ALREADY EXISTS	[LIB] Attempt to copy a module into an existing file.
FILE DOESN'T EXIST	[E]
FILE EXISTS - OK TO OVERWRITE (Y/N)?	[COPY, TRANSFER] Output file already exists. Enter Y if it is acceptable to overwrite it.
FILE EXISTS... S-RECORDS WILL BE APPENDED	[UPLOADS] Status; ready to continue.
FILE FORMAT NOT ASCII	[MIGR]
FILENAME IS AN INVALID FILE TYPE	[LIB] Attempted to add a file type other than .RO to the library.
FILE NOT FOUND	[IPL]
FILE NOT ON VOLUME nnnn	[DIR] nnnn is the volume name. Probably incorrect filename or volume ID.
FILE NOT OPEN AT INPUT	[PASCAL]

FILE NOT OPEN AT OUTPUT	[PASCAL]
FILENAME NOT FOUND	[MIGR]
FILENAME2 EXISTS, OVERWRITE (Y/N)?	[E] Enter Y to continue edit with <filename2> as output file; enter N to terminate edit session.
FREE LOGICAL UNIT x	[REPAIR]
GIVE NEW NAME	[REPAIR]
I/O ERROR FOR SCREEN	[SYMBUG]
I/O ERROR WHILE PROCESSING HELP FILE	[SYMBUG]
I/O ERROR WHILE PROCESSING PROFILE FILE	[SYMBUG]
I/O ERROR WHILE SAVING EMULATOR CONFIGURATION	[SYMBUG]
I/O FRAMING ERROR	[E] Screen I/O error; Editor rewrites current page to screen and goes to command mode.
ILLEGAL DIVISION	[PASCAL]
ILLEGAL FILENAME	[PASCAL]
ILLEGAL FMS COMMAND CODE x	[E] Internal Editor error; files saved and Editor exited.
ILLEGAL INPUT FILENAME D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Editor exited.
ILLEGAL OUTPUT FILENAME D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Editor exited.
ILLEGAL REM ARGUMENTS	[PASCAL]
ILLEGAL SQRT ARGUMENT	[PASCAL]
ILLEGAL TRAP #14 ERROR CODE - INTERNAL PASCAL ERROR	[PASCAL]
INCOMPATABLE FILE TYPES - NO MERGE	[E] File to be merged must be of edit file type.
INCORRECTLY FORMATTED RETURN PACKET FROM IPC	[IPL]
INEXACT RESULT	[PASCAL]

INPUT DISK IS FOREIGN
CONTINUE (Y/N)?

[BACKUP] During a track-by-track backup, it was found that the input disk is foreign. This message is printed to inform the user of the possibility that the disk is not a VERSAdos disk. Type Y to continue, N to abort.

INPUT FILE ERROR

[SYSGEN, MERGEOS] Invalid filename or more than one input file specified.

INPUT FILE MUST BE A LOAD MODULE

[PATCH] Must be contiguous file with a .LO extension.

INPUT FILE MUST BE CONTIGUOUS

[MERGEOS]

INPUT FILE REQUIRED

[SYSGEN] A command file must be specified and cannot be a device.

INPUT FILENAME ERROR

[MIGR]

INSERT AFTER MODULE mmmm NAME NOT FOUND

[LIB] ADD command was unable to find module mmmm.

INSERT ERROR D0=xx0000zz

[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Save files; exit Editor.

INSTRUCTION ADDRESSES MUST BE EVEN

[PATCH] An odd address was specified in the memory modify subcommand.

INSUFFICIENT DIRECTORY SPACE

[E] Editor exited.

INSUFFICIENT DISK SPACE

[E] (1) On Open: Editor exited, (2) On Close or Save: output file may not be saved; input file may not be closed; Editor exited, (3) otherwise, files saved and Editor exited.

INTEGER DIVISION BY ZERO

[PASCAL]

INTEGER EXPECTED IN TEXT FILE

[PASCAL]

INTERNAL ERROR x

[REPAIR]

INTERNAL LIST ERROR

[E] Editor cannot process command; reenter command.

INVALID ADDRESS	[PATCH] Address after M subcommand lies outside memory space assigned to this task.
INVALID BASE FOR INTEGER IN TEXT FILE	[PASCAL]
INVALID CHARACTER RECEIVED - REINPUT	[E] During CRT mode editing, the Editor found a character it could not handle. The screen is rewritten and command level is entered.
INVALID COMMAND LINE	[IPL, TTGEN] The format of the command line was incorrect.
INVALID COMMAND-NO FILE RECORDS	[E] No records are in the file for which a CHANGE, FIND, MERGE, etc., is requested. These commands require at least one record.
INVALID DEVICE	[DUMP, REPAIR] Device name specified on the input command line does not exist.
INVALID DIGIT FOR BASED INTEGER IN TEXT FILE	[PASCAL]
INVALID EMULATOR ID NUMBER	[SYMBUG]
INVALID ENTRY	[LIB]
INVALID FILE NAME SPECIFIED ON COMMAND LINE	[TTGEN]
INVALID FILE TYPE	[IPL] The file must be a contiguous type.
INVALID KEYSIZE - OUTPUT FILE	[E] Open error - key sizes of input and output files do not match; editor exited.
INVALID MACRO PARAMETER	[SYMBUG]
INVALID MODULE NAME	[LIB] Improper module name or name missing.
INVALID OPERATION	[PASCAL]
INVALID OPTION FIELD!	[SRCCOM]
INVALID OPTION WITH NEW FILENAME	[E] Editor exited.
INVALID OPTIONS	[E] Editor exited.

INVALID RESPONSE --- PRESS RETURN TO CONTINUE	[TTGEN]
INVALID SEGMENT INFORMATION	[MERGEOS]
INVALID SUBCOMMAND FOR NONCONTIGUOUS FILE	[DUMP] An attempt was made to alter the contents of a non-contiguous file using the W subcommand.
INVALID TAB OPTIONS - USING DEFAULTS	[E] Editor session continues.
INVALID VERSADOS FILENAME SPECIFIED	[SYMBUG]
IO ERROR, DO = xxxxxxxx FROM (READ or WRITE) dddd	[REPAIR]
IPC SHARED MEMORY NOT FREE	[IPL]
IPC SHARED MEMORY READ/WRITE MISMATCH	[IPL]
LAST FAB PSN = xxxxxxxx	[REPAIR]
LIBRARY DOES NOT EXIST	[LIB] Attempted operation on null library.
LINK: ABORTED BY LINK = xyzz	[LINK] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
LIST DEVICE/FILE ERROR	[SYSGEN] Invalid list device or file specified, or more than one name specified.
LOAD ERROR	[DEBUG] Unknown filename as LOAD argument.
LOCK TABLE ALREADY ALLOCATED, ENTRY NOT ALLOWED	[INIT] The user has attempted to lock out the same block or one that overlaps another already locked out. Alternatively, the user has tried to lock out a block that is already in use by a file.
LOGON REJECTED, LOGGED OFF	[USM]
LUN NOT AVAILABLE - NOT EXECUTED	[E] SAVE or MERGE error; no LUN for file.
MACRO EXPANSION ERROR	[SYMBUG]
MACRO PARAMETER ERROR	[SYMBUG]
MACRO PARAMETER IS MISSING	[SYMBUG]

MACRO/SYMBOL NAME IS NOT DEFINED	[SYMBUG]
MACRO/SYMBOL TABLE IS FULL	[SYMBUG]
MAXIMUM # OF TAB SET (20)	[E] 20 tab stops have already been set. No more tabs may be set until some are deleted.
MEDIA NOT DEFINED--BAD TOTAL NUMBER OF SECTORS RETURNED FROM THE IPC	[INIT] The floppy diskette was improperly defined at SYSGEN time.
MEMORY ALLOCATION ERROR DURING PROCESSING Z OPTION	[PASCAL]
MEMORY SEGMENT ALLOCATION ERROR!!!	[INIT] A request for memory from the system failed.
MERGE NOT PERFORMED	[MERGEOS]
MODULE NAME ALREADY IN LIBRARY	[LIB]
MOUNT IS NOT NEEDED FOR IPC DISKS	[MT]
MOVED SINGLE PRECISION UNNORMALIZED TO DOUBLE PRECISION	[PASCAL]
MSG FROM ASQ WRONG	[DEBUG] System problem -- BREAK key will abort program.
MUST BE USER 0	[SPL] Only the system administrator is allowed to initiate spooling.
NAK RECEIVED FROM IPC	[IPL]
NEW FILENAME1-FILENAME2 IGNORED - CONTINUE (Y/N)?	[E] <filename1> is a new file; therefore, <filename2> is not required.
NO ASQ	[DEBUG] System problem -- BREAK key will abort program.
NO CONFIGURATION DATA IS AVAILABLE FOR THIS DISK	[MT] Foreign disk.
NO DATA MOVED TO XTRACT BUFFER	[E] Try MOVE or DUP using fewer records at a time.
NO DIRECTORIES	[REPAIR]
NO INVALID OPERATION ERROR	[PASCAL]
NO MEMORY FOR ASQ	[DEBUG] Retry when fewer users on system. Fatal error.

NO MEMORY FOR TCB	[DEBUG] Retry when fewer users on system. Fatal error.
NO MODULE ID RECORDS	[LIB] No header record found or null library.
NO OUTPUT FILE CREATED	[SYSGEN] No process or task specified before detection of the end of the command file.
NO RECORDS INSERTED - BUFFER FULL	[E] During an AMOV or ADUP, the XTRACT buffer will not hold any more records. Move the buffer records to the file by an XTRACT command, then clear the buffer by an XTRACT A command.
NO ROOM TO ATTACH tttt	[DEBUG] Retry when fewer users on system. Fatal error.
NUMBER ENTERED IS OUT OF RANGE	[SYMBUG]
NUMBER/VALUE ENTERED IS INVALID	[SYMBUG]
OFFSET ERROR	[REPAIR]
OK TO MERGE (Y/N/Q) ?	[MERGEOS]
OLD LIB FORMAT - INPUT FILE MUST BE LINKED WITH LINK 1.90 OR LATER	[PATCH]
ONLY THE OWNER OF THE DISK OR USER 0 MAY MOUNT	[MT]
ONLY USER 0 CAN USE D (MOUNT DRIVE) OPTION	[MT]
OPEN ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2, Editor exited.
OPTION ENTERED IS INVALID	[SYMBUG]
OPTION ERROR IN 'RESET' OR 'REWRITE'	[PASCAL]
OPTION FIELD ERROR	[TRANSFER]
OPTION(S) SET = o...o	[USM]
OUTPUT FILE ERROR	[MERGEOS]
OUTPUT FILE EXISTS - OK TO OVERWRITE (Y/N)?	[DUMP] Enter Y or N.

OUTPUT FILE EXISTS - SAVE NOT DONE	[E] SAVE command requires new output file.
OUTPUT FILE MUST BE CONTIGUOUS	[MERGEOS]
OUTPUT FILENAME ERROR	[MIGR]
OVERFLOW	[PASCAL]
OVERFLOW ON CONVERSION FROM FLOATING POINT TO INTEGER	[PASCAL]
PARSER ERROR NUMBER ...xxxx	[SYMBUG]
PAS1: ABORTED BY PAS1 = xyz	[PASCAL] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
PAS2: ABORTED BY PAS2 = xyz	[PASCAL2] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
PRINTER BUSY	[E] Reenter command.
PRINTER ERROR, DO = xxxxxxxx	[REPAIR]
PRINTER NOT READY	[E] Check printer readiness; reenter command.
PRINTER UNAVAILABLE, HARDCOPY OUTPUT SKIPPED	[INIT]
PRIOR FAB PSN = xxxxxxxx	[REPAIR]
PROJECTIVE CLOSURE USE OF +/- INFINITY	[PASCAL]
PSN ERROR	[REPAIR]
Q TO QUIT: <CR> CONTINUES.	[SYMBUG]
QUIT (Y/N)?	[REPAIR]
QUOTE STRING ERROR	[PATCH] Invalid syntax in entry.
R: ALLOCATE xxxx	[REPAIR]
R: DEALLOCATE	[REPAIR]
R: DELETE xxxx CHAIN	[REPAIR]
R: FIX LINK	[REPAIR]
R: GIVE NEW VALUE	[REPAIR]

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R: RECALCULATE	[REPAIR]
R: RECREATE SAT	[REPAIR]
R: SET EQUAL TO FILE KEY SIZE	[REPAIR]
R: SET FILE EMPTY	[REPAIR]
R: SWITCH TO USING BACKWARD LINKS	[REPAIR]
R: TRUNCATE xxxx CHAIN	[REPAIR]
R: USE BACKWARD FAB LINKS ONLY	[REPAIR]
R: ZERO OUT	[REPAIR]
RASM: ABORTED BY RASM = xyzz	[ASM] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
READ ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Save files; Editor exited.
READ ERROR SECTOR #xxxxxxx	[INIT] During validation, a sector could not be read properly and was marked in the SAT and SLT. Additionally, when the S option is used with the alternate track capability, and a sector to be locked out is unreadable and found to be in use, i.e., allocated for a file.
READ PAST END OF FILE	[PASCAL]
REAL EXPECTED IN TEXT FILE	[PASCAL]
REAL NUMBER OUT OF RANGE IN TEXT FILE	[PASCAL]
RECORD NOT ON FILE	[E] (1) On Read: save files and exit Editor, (2) On Delete or Insert: message is displayed; continue.
RECORDS NOT SAME LENGTH	[COPY] When verifying two files, the record lengths were different.
RECOVER DELETED FILE (Y/N)?	[REPAIR]
REGISTER ENTERED IS INVALID	[SYMBUG]

REPAIR (Y/N)?	[REPAIR]
REPAIR ABORTED	[REPAIR]
REPAIR DONE	[REPAIR]
REPAIR TERMINATED	[REPAIR]
REPLACE ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Save files; Editor exited.
RESERVED EXPONENT VALUE SEEN AS INPUT OPERAND	[PASCAL]
RETURNED UNNORMALIZED NUMBER TO SINGLE OR DOUBLE PRECISION	[PASCAL]
RX=\$xxxx RA=\$xxxx RD=\$xxxx	[USM]
SAVE ERROR - FILE NOT CREATED	[E] System error.
SAVE ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Output file not saved; input file may not be closed; Editor exited.
SEARCH FOR STRING ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Internal error. Save files; Editor exited.
SECTOR CHANGE BUFFER NOT READ IN YET	[DUMP] An F or N subcommand was entered before reading the sector change buffer with the R command.
SEGMENT ALLOCATION ERROR, D0 = xxxxxxxx SEG: dddd	[REPAIR]
SEGMENT END LESS THAN SEGMENT START	[SYSGEN] Invalid loader information block for load module.
SEGMENT ERROR - TASK LINKED INCORRECTLY	[LOADER] When running a task on a cache system with an MMU such as an MVME12x, the task must either be marked position-independent or the individual segments must be forced to start on an address boundary of specific granularity. For an MVME12x system, the segments must start on 1K boundaries. If the task is position-independent, the

VERSAdos loader automatically adjusts segment boundaries to an acceptable granularity. Refer to the M68000 Family Linkage Editor User's Manual for additional information.

SEGMENT NOT FOUND [PRTDUMP]

SEGMENT START LESS THAN LOCATION COUNTER [SYSGEN] The starting address of a process is less than SYSGEN's current location counter. Error can also be caused by task segment if running with P option.

SEGMENT STARTING ADDRESS OUT OF RANGE [MERGEOS]

SEGMENT/MEMORY IMAGE CONFLICT [SYSGEN] Invalid LIB for load module.

SKIP (Y/N)? [REPAIR]

STACK/HEAP OVERFLOW [PASCAL]

START OF SEGMENT NOT ON PAGE BOUNDARY [SYSGEN] Invalid LIB for load module.

STRING NOT FOUND [E] String not found during **FIND** or **CHANGE** command execution.

SYMBOL NAME ENTERED IS INVALID [SYMBUG]

SYMBOL TABLE OVERFLOW [SYSGEN] Too many parameters defined. Up to 170 parameters may be defined.

SYMbugtttt ? [SYMBUG] tttt is the first four letters of the foreground taskname. The user may respond with any primitive or task level SYMbug command.

SYMbug ? [SYMBUG] The initial prompt in multitask mode. Only **LOAD**, **ATTA**, **HELP**, and **QUIT** commands are legal until a foreground task is declared.

SYMbugtttt WHAT ? [SYMBUG] A bell rings (on terminals so equipped) to signify a syntax error in the previous SYMbug command. Consult the **HELP** command listing.

3

SYNTAX ENTERED IS NOT CORRECT	[SYMBUG]
SYNTAX ERROR-EDIT TERMINATED	[E] An invalid command was entered in chain mode.
SYSA: BREAK RVCD!!	[SYSANAL]
SYSA: ERROR ON MEMORY MOVE - DO = xxxxxxxx	[SYSANAL]
SYSA: ERROR WRITING TO OUTPUT DEVICE - DO = xxxxxxxx	[SYSANAL]
SYSA: MEMORY NOT AVAILABLE FOR BUFFERS	[SYSANAL]
SYSA: OUTPUT DEVICE ASSIGNMENT ERROR - DO = xxxxxxxx	[SYSANAL]
SYSA: REENTER OUTPUT DEVICE NAME >	[SYSANAL]
SYSA: TASK NOT FOUND	[SYSANAL]
SYSA: WHAT ?	[SYSANAL]
SYSTEM VOLUME = vvvv	[USM]
TARGET TASK ADDRESS ERROR	[DEBUG] Breakpoint address out of program.
TARGET TASK ADDRESS ERROR	[SYMBUG]
TASKNAME MUST BE FIRST 4 CHARS OF .LO FILENAME	[SYMBUG]
TDMP: (UNABLE TO ALLOCATE DEFAULT FILE)	[TASKDUMP] The default filename for the dump, constructed from the aborted task's taskname and the time of day, cannot be used. Consult EMH message for cause.
TDMP: (UNABLE TO ALLOCATE DUMP FILE)	[TASKDUMP] The filename chosen could not be created on disk. Consult the EMH message for cause.
TDMP: DUMP TERMINATED -- LAST BLOCK ADDRESS=000000 SEGMENT=ssss	[TASKDUMP]
TEMP. FILE VOLUME ERROR	[SYSGEN] Only volume and user number fields can be specified for a temporary volume.
THE DISK CANNOT BE ACCESSED PROPERLY WITH THE GIVEN CONFIGURATION	[MT] Damaged configuration area or bad configuration entered by the user.

THE VID CANNOT BE MODIFIED FOR AUTOMATIC MOUNT	[MT] Disk is write protected.
THIS DISK TYPE CANNOT BE MOUNTED	[MT] VIDIPC field of sector 0 is invalid.
THIS OPTION IS NOT AVAILABLE	[INIT] An option letter following ", " is not valid.
TOO MANY COMMAND LINE FIELDS	[PASCAL]
TOO MANY ERRORS ON DISC. INIT ABORTED	[INIT] During validation, when the alternate track capability is used, more errors are found than alternate tracks available. Twelve tracks per disk surface are used as potential alternates.
TOO MANY FILES IN USE	[PASCAL]
TOO MANY SEGMENTS	[SYSGEN] Invalid LIB for load module.
UNABLE TO ALLOCATE FILE RESTOREA.CF	[TDTIGEN1]
UNABLE TO ALLOCATE "fffffff" STATUS = \$xxxxxxx	[TTGEN]
UNABLE TO ASSIGN FILE - ffffffff	[TTGEN]
UNABLE TO ASSIGN MENU FILE "fffffff"	[TTGEN]
UNABLE TO ASSIGN "fffffff" STATUS = \$xxxxxxx	[TTGEN]
UNABLE TO ASSIGN VOLUME - ERROR xxxxxxxx	[REPAIR]
UNABLE TO READ FILE "fffffff"	[TTGEN]
UNABLE TO READ MENU FILE O.&.TTMENU.MN - key = xxxx	[TTGEN]
UNABLE TO REWIND RESTOREA.CF TO START OF FILE	[TDTIGEN1]
UNCLAIMED VECTOR EXCEPTION, VECTOR NUMBER = \$xxxx	[IPL]
UNDERFLOW	[PASCAL]
UNKNOWN BREAKPOINT (TO DELETE)	[SYMBUG]
UNKNOWN TASKNAME	[DEBUG, SYMBUG] System problem -- bad taskname if TASK command.

3

UNMATCHED ENDC STATEMENT

[SYSGEN] An ENDC statement was detected that had no matching IFxx statement.

UNORDERED CONDITION TESTED BY PREDICATE OTHER THAN = OR <>

[PASCAL]

UPDATE dddd

[REPAIR]

UPLOADS ALLOCATING NEW FILE

[UPLOADS] Status; ready to continue.

USING K OPTION

[E] A command was attempted that is invalid while editing with the K option.

VALID FILENAME REQUIRED... nnnn...

[UPLOADS] Output parameter error. nnnn... is the first 30 characters of the command line.

VALUE ERROR

[REPAIR]

VALUE LOCATION INCORRECT

[DEBUG] PC not in program address space.

VALUE OUT OF RANGE

[PASCAL]

VERSADOS DOES NOT RECOGNIZE THE DISK

[MT] File directory cannot be accessed.

VOLUME FIELD NOT ALLOWED

[IPL]

VOLUME NOT FOUND

[DIR] Diskette not mounted on specified drive.

VOLUME 'xxxx' ALREADY ON THIS SYSTEM, USE ANOTHER VOLUME NAME

[INIT] The user has entered a volume that is already in use for another device.

WARNING - TASK NOT MARKED POSITION INDEPENDENT

[TTGEN]

WARNING--BAD SECTOR IN USER LOCK-OUT AREA

[INIT] During validation, an error was found in a sector that is already locked out (SAT, SLT, etc.).

WARNING--COULD NOT COPY ffffffff

[BACKUP] The file ffffffff could not be assigned on the input disk or was a spooler or temporary file; therefore, it was not backed up.

3

WARNING: NO."<" NOT EQUAL TO NO.">"

[USM]

WHAT?

[E, REPAIR] Syntax error - reenter command.

WORK BUFFER OVERFLOW -
TOO MANY OFFSETS?

[PATCH] During substitution of an offset value for the "0" character, the buffer space was exceeded. The offset symbol is being used too many times in the operand field.

XTRACT BUFFER DELETED

[E] Buffer memory deallocated.

XTRACT BUFFER DOESN'T EXIST

[E] XTRACT buffer is created by executing MOVE, DUP, AMOV, or ADUP command only.

mmm MODULE NOT FOUND

[LIB] The module mmmm specified on command line was not found.

nnnn NOT TERMINATED -
SPOOLING NOT INITIATED

[SPL] nnnn is a taskname equal to a device name trying to do output. To recover, terminate task nnnn, session &1. For example:

PR NOT TERMINATED-SPOOLING NOT INITIATED
=TERM PR &1
=SPL <spooler volume name>

ssss: DONE STATUS = xxxx:mmmm

[USM] ssss is the session number. xxxx is a hexadecimal value and mmmm a message, as follows:

A006: CANCELLED WAITING IN QUEUE
C001: NORMAL TERMINATION FROM RUNNING
C006: CANCELLED WHILE RUNNING
C009: CANCELLED DUE TO BREAK
C010: ABORTED DUE TO BUS ERROR (ADDRESS)
C011: TERMINATED DUE TO BUS ERROR (ADDRESS)

ttt1: ABORTED BY ttt2 = xyzz

[USM] ttt1 is the taskname being aborted; ttt2 is the taskname requesting the abort. If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.

tttt ABORTED. DO = zz

[SYSGEN] LINK or ASM terminated abnormally. tttt is a taskname. zz is an entry in Appendix C.

tttt ssss: ABORTED

[USM] tttt is the taskname. ssss is either an ASCII or binary session number.

tttt: ABORTED BY &SCT = 80zz

[USM] tttt is the taskname; zz is an entry in Appendix B.

tttt: ABORTED BY EXEC = 80zz

[USM] tttt is the taskname; zz is an entry in Appendix B.

xx ERRORS ENCOUNTERED

[SYSGEN] xx non-fatal errors encountered during **SYSGEN** processing; displayed at the completion of **SYSGEN**.

xx FHS ERROR, LUN = x

[TRANSFER]

xx IOS ERROR, LUN = x

[TRANSFER]

xxxx IS LAST LINE

[E] The vertical range requested is past the end-of-file.

xxxx HAS BEEN MOUNTED

[MT] xxxx is a device mnemonic or volume name.

xxxxxxxx LINES DELETED

[E] Number of lines deleted by **DELETE**, **MOVE**, or **AMOV** command.

xxxxxxxx RECORDS SAVED-BUFFER FULL

[E] During the execution of an **AMOV** or **ADUP**, the **XTRACT** buffer will not hold any more records. The buffer should first be moved by an **XTRACT** command, then cleared by an **XTRACT A** command.

3

APPENDIX A
MESSAGES ACCORDING TO TASK

This is a listing, according to task, of the messages listed alphabetically in Chapter 3.

ACCT

(none)

ASM

RASM: ABORTED BY RASM = xyzz

BACKUP

OUTPUT DISK FULL CONTINUE (Y/N)?
DUPLICATE FILE - OK TO COPY (Y/N/Q) ?
ERROR-INPUT DISK FOREIGN AND OUTPUT DISK LARGER
ERROR-MUST USE A OPTION
ERROR-OPTION A OR R BACKUP WITH FOREIGN DISK
ERROR-OUTPUT DISK TOO SMALL
ERROR-USE INIT COMMAND, THEN BACKUP WITH A OPTION
ERROR-USE & CATALOG NOT ALLOWED WITH TRACK-BY-TRACK COPY OR VERIFY
INPUT DISK IS FOREIGN - CONTINUE (Y/N)?
WARNING-COULD NOT COPY ffffffff

BUILDS

ERROR-INPUT FILE IS NOT A LOAD MODULE
ERROR-INPUT FILE MUST HAVE EXTENSION .LO OR .SY
ERROR-NO INPUT FILE WAS SPECIFIED

CONFIG

*** ERROR *** CHOICE NOT MODIFIABLE
*** ERROR *** DEVICE NAME MUST BE PRECEDED BY THE POUND SIGN, "#"
*** ERROR *** INVALID DEVICE NAME
*** ERROR *** INVALID SELECTION
*** ERROR *** ONLY USER 0 CAN RECONFIGURE #xxxx
*** ERROR *** ONLY USER 0 CAN PERFORM A CONFIGURE DEFAULTS
*** ERROR *** #xxxx CANNOT BE RECONFIGURED UNTIL THE SPOOLER IS DEACTIVATED
*** ERROR *** #xxxx DOES NOT EXIST
*** ERROR *** xxxxx IS AN INVALID BAUD RATE
*** ERROR *** xxxxx : VALUE OUT OF RANGE

A

```
*** NOTE ***      PRINT COMMAND EXECUTED
*** NOTE ***      #xxxx HAS BEEN CONFIGURED
*** NOTE ***      #xxxx IS READY FOR CONFIGURATION
*** SORRY ***     DEVICE TYPE IS NOT DEFINED
*** SORRY ***     #xxxx CANNOT BE CONFIGURED
*** SORRY ***     #xxxx CANNOT BE RECONFIGURED UNTIL MORE MEMORY IS FREED
*** SORRY ***     #xxxx IS BUSY
*** SORRY ***     #xxxx IS BUSY AND CANNOT BE RECONFIGURED AT THIS TIME
*** SORRY ***     #xxxx NOT READY OR POSSIBLY NOT THERE
```

CONNECT

```
ERROR-THE DEVICE NAME FOR A TERMINAL MUST BE SPECIFIED
ERROR-THE DEVICE NAME FOR A TERMINAL CANNOT BE YOUR OWN
ERROR-INVALID OPTION
ERROR-LINE NUMBER IN L OPTION IS OUT OF RANGE 10..32
ERROR-INVALID ENTRY
```

COPY

```
ATTRIBUTES NOT THE SAME FOR OVERWRITE
ERROR-END OF FILE NOT REACHED
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME
FILE EXISTS - OK TO OVERWRITE (Y/N)?
RECORDS NOT SAME LENGTH
```

CREF

(none)

DEBUG

```
ATTACH NOT ALLOWED
BAD PARM BLOCK
BAD TARGET TASK
BREAKPOINT TABLE FULL
BREAKPOINTS LOCKED IN EXECUTION
BUFFER ADDRESS WRONG
CANNOT HANDLE BREAKS
DETACH NOT ALLOWED
ERROR TRAP x ERROR CODE: yyzz
EVENT NOT SENT
LOAD ERROR
MSG FROM ASQ WRONG
NO ASQ
NO MEMORY FOR ASQ
NO MEMORY FOR TCB
NO ROOM TO ATTACH tttt
```

TARGET TASK ADDRESS ERROR
UNKNOWN TASKNAME
VALUE LOCATION INCORRECT

DEL

(none)

DIR

FILE NOT ON VOLUME nnnn
VOLUME NOT FOUND

DISPATCH

(none)

DMT

(none)

DUMP

END OF SECTOR REACHED
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME
INVALID DEVICE
INVALID SUBCOMMAND FOR NONCONTIGUOUS FILE
OUTPUT FILE EXISTS - OK TO OVERWRITE (Y/N)?
SECTOR CHANGE BUFFER NOT READ IN YET

DUMPANAL

DMPA: BREAK RVCD
DMPA: DISK READ ERROR - DO = xxxxxxxx
DMPA: ERROR WRITING TO OUTPUT DEVICE - DO = xxxxxxxx
DMPA: MEMORY NOT AVAILABLE FOR BUFFERS
DMPA: REENTER OUTPUT DEVICE NAME
DMPA: TASK NOT FOUND

E

2 LOGICAL UNITS NOT AVAILABLE
ASQ ERROR DO=xx0000zz
BOF OR EOF ENCOUNTERED
BREAK WAS INPUT

A

CANNOT HANDLE BREAKS D0=xx0000zz
CLOSE ERROR D0=xx0000zz
COMMAND ABORTED BY BREAK KEY
COMMAND LINE ERROR
DATA OVERRUN I/O ERROR
DELETE ERROR D0=xx0000zz
ERROR - CHANGE ACCESS D0=xx0000zz
ERROR - IOS CALL D0=xx0000zz
ERROR - MERGE NOT EXECUTED
ERROR - RETRIEVE ATTRIBUTES D0=xx0000zz
FILE DOESN'T EXIST
FILENAME2 EXISTS, OVERWRITE (Y/N)?
I/O FRAMING ERROR
ILLEGAL FMS COMMAND CODE x
ILLEGAL INPUT FILENAME D0=xx0000zz
ILLEGAL OUTPUT FILENAME D0=xx0000zz
INCOMPATIBLE FILE TYPES - NO MERGE
INSERT ERROR D0=xx0000zz
INSUFFICIENT DIRECTORY SPACE
INSUFFICIENT DISK SPACE
INTERNAL LIST ERROR
INVALID COMMAND-NO FILE RECORDS
INVALID KEYSIZE - OUTPUT FILE
INVALID OPTION WITH NEW FILENAME
INVALID OPTIONS
INVALID TAB OPTIONS - USING DEFAULTS
LUN NOT AVAILABLE - NOT EXECUTED
MAXIMUM OF TAB SET (20)
NEW FILENAME1-FILENAME2 IGNORED - CONTINUE (Y/N)?
NO DATA MOVED TO XTRACT BUFFER
NO RECORDS INSERTED - BUFFER FULL
OPEN ERROR D0=xx0000zz
OUTPUT FILE EXISTS - SAVE NOT DONE
PRINTER BUSY
PRINTER NOT READY
READ ERROR D0=xx0000zz
RECORD NOT ON FILE
REPLACE ERROR D0=xx0000zz
SAVE ERROR - FILE NOT CREATED
SAVE ERROR D0=xx0000zz
SEARCH FOR STRING ERROR D0=xx0000zz
STRING NOT FOUND
SYNTAX ERROR-EDIT TERMINATED
USING K OPTION
WHAT?
XTRACT BUFFER DELETED
XTRACT BUFFER DOESN'T EXIST
xxxx IS LAST LINE
xxxxxxx LINES DELETED
xxxxxxx RECORDS SAVED-BUFFER FULL

EMFGEN

(none)

FREE

(none)

INIT

CANNOT ENTER LOCKOUT ENTRIES ON A FOREIGN DISK
CANNOT LOCKOUT SECTORS IN TRACK ZERO, ENTRY NOT ALLOWED.
CANNOT USE S OPTION ON A FLOPPY
CONFIGURATION ERROR -- xxxxxxxx
ERROR SECTOR ALLOC TABLE EXCEEDED
LOCK TABLE ENTRY ALREADY ALLOCATED, ENTRY NOT ALLOWED.
MEDIA NOT DEFINED--BAD TOTAL NUMBER OF SECTORS RETURNED FROM THE IPC
MEMORY SEGMENT ALLOCATION ERROR!!!
READ ERROR SECTOR #xxxxxxx
TOO MANY ERRORS ON DISC. INIT ABORTED
VOLUME 'xxxx' ALREADY ON THIS SYSTEM, USE ANOTHER VOLUME NAME
WARNING--BAD SECTOR IN USER LOCK-OUT AREA
PRINTER UNAVAILABLE, HARDCOPY OUTPUT SKIPPED

IPL

BAD STATUS CMD. FROM IPC = \$xxxx
BAD STATUS FROM EXTERNAL DISKIO ROUTINE = \$xxxx
BAD STATUS FROM IPC = \$xxxx
BOOT COMPLETE
BOOT IN PROGRESS
BUS ERROR ACCESSING RAM - INITIALIZE RAM AND TRY AGAIN
ERROR IN FILE SPECIFICATION
ERROR IN OPTION FIELD
FILE NOT FOUND
INCORRECTLY FORMATTED RETURN PACKET FROM IPC
INVALID COMMAND LINE
INVALID FILE TYPE
IPC SHARED MEMORY NOT FREE
IPC SHARED MEMORY READ/WRITE MISMATCH
NAK RECEIVED FROM IPC
UNCLAIMED VECTOR EXCEPTION, VECTOR NUMBER = \$xxxx
VOLUME FIELD NOT ALLOWED

LIB

BAD MODULE NAME
ERROR-CHECK FOR *TEMPLIB.RO*
FILE ALREADY EXISTS
FILENAME IS AN INVALID FILE TYPE
INSERT AFTER MODULE mmmm NAME NOT FOUND
INVALID ENTRY
INVALID MODULE NAME
LIBRARY DOES NOT EXIST
MODULE NAME ALREADY IN LIBRARY
NO MODULE ID RECORDS
mmmm MODULE NOT FOUND

LINK

** ERROR xxx - mmmm
** WARNING xxx - mmmm
LINK: ABORTED BY LINK = xyz

LIST

CAN'T LIST A CONTIGUOUS FILE
CAN'T LIST A DEVICE
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME

MBLM

BUFFER ERROR
COMMAND LINE ERROR
ERRORDUPLICATE FILENAME** REUSE FILE (Y/N)?
FILE HANDLING ERROR LUN = n, STATUS = \$zz
INPUT/OUTPUT ERROR LUN = n, STATUS = \$zz
S-RECORD ERROR

MERGEOS

COMMAND LINE ERROR
INPUT FILE ERROR
INPUT FILE MUST BE CONTIGUOUS
INVALID SEGMENT INFORMATION
MERGE NOT PERFORMED
OK TO MERGE (Y/N/Q) ?
OUTPUT FILE ERROR
OUTPUT FILE MUST BE CONTIGUOUS
SEGMENT STARTING ADDRESS OUT OF RANGE

MIGR

BUFFER OVERFLOW ERROR
COMMAND ERROR
DEVICE NAME ERROR
DUPLICATE FILENAME - REUSE (Y/N)?
EOF ERROR
FILE FORMAT NOT ASCII
FILENAME NOT FOUND
INPUT FILENAME ERROR
OUTPUT FILENAME ERROR

MT

A DISK IS ALREADY MOUNTED ON THE DEVICE
CONFIGURATION ERROR CODE \$xx
MOUNT IS NOT NEEDED FOR IPC DISKS
NO CONFIGURATION DATA IS AVAILABLE FOR THIS DISK
ONLY THE OWNER OF THE DISK OR USER 0 MAY MOUNT
ONLY USER 0 CAN USE D (MOUNT DRIVE) OPTION
THE DISK CANNOT BE ACCESSED PROPERLY WITH THE GIVEN CONFIGURATION
THE VID CANNOT BE MODIFIED FOR AUTOMATIC MOUNT
THIS DISK TYPE CANNOT BE MOUNTED
VERSADOS DOES NOT RECOGNIZE THE DISK
xxxx HAS BEEN MOUNTED

NOVALID

(none)

PASCAL

(+INFINITY) + (-INFINITY) IN AFFINE MODE
0 * INFINITY
ADDRESS ERROR - BAD POINTER OR STACK/HEAP OVERFLOW
AN ARGUMENT WAS A TRAPPING NOT-A-NUMBER
ATTEMPT TO ENABLE 6809 FLOATING POINT TRAP
ATTEMPT TO SET 6809 FLOATING POINT EXCEPTION
ATTEMPT TO SET 6809 FLOATING POINT PRECISION MODE
ATTEMPT TO TAKE NAN(0)
BINARY-TO-DECIMAL OR DECIMAL-TO-BINARY CONVERSION OUT OF RANGE
BOOLEAN EXPECTED IN TEXT FILE
BUS ERROR - BAD POINTER OR STACK/HEAP OVERFLOW
CASE INDEX OUT OF RANGE
CONVERSION OF A NOT-A-NUMBER TO AN INTEGER
DIVISION BY ZERO
FILE NOT OPEN AT INPUT
FILE NOT OPEN AT OUTPUT

A

ILLEGAL DIVISION
ILLEGAL FILENAME
ILLEGAL REM ARGUMENTS
ILLEGAL SQRT ARGUMENT
ILLEGAL TRAP #14 ERROR CODE - INTERNAL PASCAL ERROR
INEXACT RESULT
INTEGER DIVISION BY ZERO
INTEGER EXPECTED IN TEXT FILE
INVALID BASE FOR INTEGER IN TEXT FILE
INVALID DIGIT FOR BASED INTEGER IN TEXT FILE
INVALID OPERATION
MEMORY ALLOCATION ERROR DURING PROCESSING Z OPTION
MOVED SINGLE PRECISION UNNORMALIZED TO DOUBLE PRECISION
NO INVALID OPERATION ERROR
OPTION ERROR IN 'RESET' OR 'REWRITE'
OVERFLOW
OVERFLOW ON CONVERSION FROM FLOATING POINT TO INTEGER
PROJECTIVE CLOSURE USE OF +/- INFINITY
READ PAST END OF FILE
REAL EXPECTED IN TEXT FILE
REAL NUMBER OUT OF RANGE IN TEXT FILE
RESERVED EXPONENT VALUE SEEN AS INPUT OPERAND
RETURNED UNNORMALIZED NUMBER TO SINGLE OR DOUBLE PRECISION
STACK/HEAP OVERFLOW
TOO MANY COMMAND LINE FIELDS
TOO MANY FILES IN USE
UNDERFLOW
UNORDERED CONDITION TESTED BY PREDICATE OTHER THAN = OR <>
VALUE OUT OF RANGE

PASCAL1

PAS1: ABORTED BY PAS1 = xyz

PASCAL2

PAS2: ABORTED BY PAS2 = xyz

PATCH

ASSEMBLY LANGUAGE SYNTAX ERROR
END OF MEMORY IMAGE REACHED
INPUT FILE MUST BE A LOAD MODULE
INSTRUCTION ADDRESSES MUST BE EVEN
INVALID ADDRESS
OLD LIB FORMAT - INPUT FILE MUST BE LINKED WITH LINK 1.90 OR LATER
QUOTE STRING ERROR
WORK BUFFER OVERFLOW - TOO MANY OFFSETS?

PRTDUMP

ADDRESS xxxxxx
SEGMENT NOT FOUND

RENAME

BOTH PROTECTION CODES ARE REQUIRED
ERROR (READ OR WRITE) PROTECTION CODE
ERROR-READ > PROTECTION CODE
ERROR-WRITE > PROTECTION CODE

REPAIR

BREAK KEY! -
CDF NOT ASSIGNED
COMMAND LINE ERROR
CRC ERROR ON READ xxxx, PSN = xxxxxxxx, dddd, xxxx
ER: BAD FAB BACKWARD LINK, PSN = xxxxxxxx
ER: BAD FAB CONTENTS
ER: BAD FAB FORWARD LINK, PSN = xxxxxxxx
ER: BAD TEST PATTERN
ER: CATALOG NAME
ER: CHECKSUM
ER: DB KEY ORDER, PSN = xxxxxxxx
ER: DB PSN ERROR, PSN = xxxxxxxx, LENGTH = xxxxxxxx
ER: DB SIZE = xx
ER: DISK NOT A VERSADOS VOLUME
ER: DUMP AREA PSN ERROR
ER: EMPTY FAB, PSN = xxxxxxxx
ER: EMPTY FILE - LAST FAB PSN NOT 0
ER: EOF/EOR AND FAB/DB CONFLICT
ER: EXTENSION
ER: FAB SIZE = xx
ER: FAB USAGE FRACTION
ER: FAB/DB KEY CONFLICT (L, F, or H)
ER: FAB/DB RECORD CONFLICT, PSN = xxxxxxxx
ER: FAB/DB SECTOR CONFLICT, PSN = xxxxxxxx
ER: FDB SIZE = xx
ER: FILE ATTRIBUTE
ER: FILENAME
ER: FILE NOT FOUND
ER: KEY SIZE = xx (I, D, S, H, or E)
ER: LAST DB SIZE
ER: NO FAB LINKS
ER: RECORD LENGTH = xxxx
ER: SAT LENGTH = xxxxxxxx
ER: SAT PSN = xxxxxxxx
ER: SDB PSN = xxxxxxxx

A

ER: SLS PSN BAD
ER: SLT PSN ERROR
ER: TST PSN ERROR
ER: UNUSED SECTORS MARKED ALLOCATED IN SAT
ER: USER, CATALOG NAME CONFLICT, PSN = xxxxxxxx
ER: VOLUME DESCRIPTOR
ER: VOLUME NAME
ER: dddd LINK, PSN = xxxxxxxx
ER: dddd NOT ALLOCATED IN SAT, PSN = xxxxxxxx
ER: dddd REALLOCATED AFTER FILE DELETED, PSN = xxxxxxxx
ER: dddd RESERVED FIELD NOT ZERO, PSN = xxxxxxxx
ER: dddd SPACE ALREADY ALLOCATED, PSN = xxxxxxxx
ERROR FROM WRITE, STARTING PSN = xxxxxxxx
FREE LOGICAL UNIT x
GIVE NEW NAME
INTERNAL ERROR x
INVALID DEVICE
IO ERROR, DO = xxxxxxxx FROM (READ or WRITE) dddd
LAST FAB PSN = xxxxxxxx
NO DIRECTORIES
OFFSET ERROR
PRINTER ERROR, DO = xxxxxxxx
PRIOR FAB PSN = xxxxxxxx
PSN ERROR
QUIT (Y/N)?
R: ALLOCATE xxxx
R: DEALLOCATE
R: DELETE xxxx CHAIN
R: FIX LINK
R: GIVE NEW VALUE
R: RECALCULATE
R: RECREATE SAT
R: SET *EQUAL TO FILE KEY SIZE
R: SET FILE EMPTY
R: SWITCH TO USING BACKWARD LINKS
R: TRUNCATE xxxx CHAIN
R: USE BACKWARD FAB LINKS ONLY
R: ZERO OUT
RECOVER DELETED FILE (Y/N)?
REPAIR (Y/N)?
REPAIR ABORTED
REPAIR DONE
REPAIR TERMINATED
SEGMENT ALLOCATION ERROR, DO = xxxxxxxx SEG: dddd
SKIP (Y/N)?
UNABLE TO ASSIGN VOLUME - ERROR xxxxxxxx
UPDATE dddd
VALUE ERROR
WHAT?

SPL

MUST BE USER 0
nnnn NOT TERMINATED - SPOOLING NOT INITIATED

SCRATCH

(none)

SRCCOM

INVALID OPTION FIELD!
FILE #1 NAME MISSING!
FILE #1 ('fffffff') DOES NOT EXIST!
FILE #2 NAME MISSING!
FILE #2 ('fffffff') DOES NOT EXIST!

SESSIONS

(none)

SNAPSHOT

(none)

SPOOL

(none)

SYMBUG

ADDITIONAL PARAMETER(S) NEEDED
ADDRESS ENTERED IS INVALID
ADDRESS MUST BE EVEN
ADDRESS RANGE ENTERED IS INVALID
CANNOT ATTACH A SYSTEM TASK
CHARACTERS ENTERED EXCEEDED BUFFER SIZE
COMMAND ENTERED IS NOT [YET] SUPPORTED
COMMAND NOT VALID YET
EVEN ADDRESS IS REQUIRED
EXPRESSION ENTERED IS INVALID
FAILED TO ASSIGN LUN TO TASK
FAILED TO CHANGE TASK STATUS
I/O ERROR FOR SCREEN
I/O ERROR WHILE PROCESSING HELP FILE
I/O ERROR WHILE PROCESSING PROFILE FILE
I/O ERROR WHILE SAVING EMULATOR CONFIGURATION

A

```
INVALID EMULATOR ID NUMBER
INVALID MACRO PARAMETER
INVALID VERSAdos FILENAME SPECIFIED
MACRO EXPANSION ERROR
MACRO PARAMETER ERROR
MACRO PARAMETER IS MISSING
MACRO/SYMBOL NAME IS NOT DEFINED
MACRO/SYMBOL TABLE IS FULL
NUMBER ENTERED IS OUT OF RANGE
NUMBER/VALUE ENTERED IS INVALID
OPTION ENTERED IS INVALID
Q TO QUIT: <CR> CONTINUES.
PARSER ERROR NUMBER ...xxxx
REGISTER ENTERED IS INVALID
SYMBOL NAME ENTERED IS INVALID
SYMbugtttt ?
SYMbug    ?
SYMbugtttt WHAT?
SYNTAX ENTERED IS NOT CORRECT
TARGET TASK ADDRESS ERROR
TASKNAME MUST BE FIRST 4 CHARS OF .LO FILENAME
UNKNOWN BREAKPOINT (TO DELETE)
UNKNOWN TASKNAME
}---> tttt ATTACHED
```

SYSANAL

```
SYSA: BREAK RCVD!!
SYSA: ERROR ON MEMORY MOVE - DO = xxxxxxxx
SYSA: ERROR WRITING TO OUTPUT DEVICE - DO = xxxxxxxx
SYSA: MEMORY NOT AVAILABLE FOR BUFFERS
SYSA: OUTPUT DEVICE ASSIGNMENT ERROR - DO = xxxxxxxx
SYDA: REENTER OUTPUT DEVICE NAME
SYDA: TASK NOT FOUND
SYDA: WHAT?
```

SYSGEN

```
**DUPLICATE PARAMETER
**FILENAME MISSING
**FILENAME TOO LONG
**INVALID FILE DESCRIPTOR
**INVALID FILE TYPE
**INVALID LINK STATEMENT
**INVALID PARAMETER
**INVALID SEGMENT NAME
**INVALID STATE OR ATTRIBUTE
**INVALID TASKNAME
**INVALID VALUE
```

**NEW PC LESS THAN OLD
**NEW PC MUST BE ON PAGE BOUNDARY
**NO SEGMENTS PROCESSED
**PC=\$xxxxxxx
**SUBSTITUTION RECORD TOO BIG
**SYNTAX ERROR
**TOO MANY EXCLUDED SEGMENTS
**VALUE TOO BIG
**ffff SEGMENT NOT FOUND
**nnnnnnnn NOT DEFINED
BOOT FILE ERROR
INPUT FILE ERROR
INPUT FILE REQUIRED
LIST DEVICE/FILE ERROR
NO OUTPUT FILE CREATED
SEGMENT END LESS THAN SEGMENT START
SEGMENT START LESS THAN LOCATION COUNTER
SEGMENT/MEMORY IMAGE CONFLICT
START OF SEGMENT NOT ON PAGE BOUNDARY
SYMBOL TABLE OVERFLOW
TEMP. FILE VOLUME ERROR
TOO MANY SEGMENTS
UNMATCHED ENDC STATEMENT
tttt ABORTED. DO = zz
xx ERRORS ENCOUNTERED

TASKDUMP

TDMP: (UNABLE TO ALLOCATE DEFAULT FILE)
TDMP: (UNABLE TO ALLOCATE DUMP FILE)
TDMP: DUMP TERMINATED -- LAST BLOCK ADDRESS=000000 SEGMENT=ssss

TDITGEN1

ALLOCATED FILE RESTOREA.CF BUT UNABLE TO ASSIGN IT
ERROR: INVALID PRODUCT CATALOG VALUE
ERROR: INVALID SYSTEM TYPE
ERROR: INVALID USER NUMBER VALUE
ERROR: INVALID VOLUME NAME
ERROR: PRODUCT CATALOG EXCEEDS EIGHT CHARACTERS
ERROR: SYSTEM TYPE EXCEEDS ONE CHARACTER
ERROR: USER NUMBER EXCEEDS FOUR CHARACTERS
ERROR: VOLUME NAME EXCEEDS FOUR CHARACTERS
ERROR IN READ OF "&.RESTOREA.CF" FILE
ERROR IN WRITE OF "&.RESTOREA.CF" FILE
UNABLE TO ALLOCATE FILE RESTOREA.CF
UNABLE TO REWIND RESTOREA.CF TO START OF FILE

TRANSFER

BAD CHARACTER COUNT RECEIVED EXPECTED - RETRANSMITTING
BAD CHECKSUM RECEIVED EXPECTED - RETRANSMITTING
BAD FILE NAME ENTERED - REENTER NAME OR 'Q' TO QUIT
COMMAND LINE ERROR
FILE EXISTS - OK TO OVERWRITE (Y/N) ?
OPTION FIELD ERROR
xx FHS ERROR, LUN = x
xx IOS ERROR, LUN = x

TTGEN

***** NO FILE NAME DEFINED FOR ENTRY "
CAN'T ASSIGN "ffffffff"
CAN'T READ FILE "ffffffff" STATUS = \$xxxxxxxx
ERROR WRITING TO OUTPUT FILE, STATUS = xxxxxxxx
INVALID COMMAND LINE
INVALID FILE NAME SPECIFIED ON COMMAND LINE
INVALID RESPONSE --- PRESS RETURN TO CONTINUE
UNABLE TO ALLOCATE "ffffffff" STATUS = \$xxxxxxxx
UNABLE TO ASSIGN FILE - ffffffff
UNABLE TO ASSIGN "ffffffff" STATUS = \$xxxxxxxx
UNABLE TO ASSIGN MENU FILE "ffffffff"
UNABLE TO READ FILE "ffffffff"
UNABLE TO READ MENU FILE O.&.TTMENU.MN - KEY = xxxx
WARNING - TASK NOT MARKED POSITION INDEPENDENT

UPLOADS

ERROR FILE DOES NOT START WITH "S0"
NOTE NO S9 RECORD ON EXISTING FILE
STATUS CHECKSUM ERROR nnnn...
STATUS NO ERROR SINCE LAST STATUS
STATUS NO ERROR SINCE START OF PROGRAM
STATUS NON HEX DIGIT FOUND nnnn...
STATUS RECORD LENGTH ERROR nnnn...
FHS/IOS ERROR zz AT xxxx
FILE EXISTS... S-RECORDS WILL BE APPENDED
UPLOADS ALLOCATING NEW FILE
VALID FILENAME REQUIRED... nnnn...

USM

-----> BREAK!
----->CAUTION: YOU WILL CHANGE PASSWORD FOR USER = 0 <-----
BATCH JOB ssss CANCELLED
BATCH SESSION NOT FOUND

ER: "IF" LEVEL EXCEEDED
ER: "ffffffff" COMMAND NOT FOUND
ER: "vvvv" VOLUME NOT FOUND
ER: =/ENDIF'S EXCEED =/IF'S
ER: ACCESS PERMISSION
ER: BATCH NOT ALLOWED IN BATCH MODE
ER: BATCH QUEUE FULL
ER: BATCH SESSION NUMBER
ER: CANNOT BE CONTINUED, MUST BE STARTED
ER: CHAIN COMMAND SYNTAX
ER: COMMAND SYNTAX
ER: DEFAULT VOLUME NOT CHANGED
ER: DEVICE NOT ALLOWED
ER: FIELD SIZE EXCEEDED
ER: FILE WAS NOT ASSIGNED
ER: FILE/DEVICE MISSING
ER: INVALID FILE DESCRIPTOR
ER: INVALID LU NUMBER
ER: INVALID TASKNAME
ER: INVALID USER NO.
ER: LOGON TERMINAL NOT AVAILABLE IN BATCH MODE
ER: LUN nn NOT ASSIGNED
ER: MUST BE IN CHAIN MODE
ER: MUST BE STARTED INDIVIDUALLY BY TASKNAME
ER: NESTING LEVEL EXCEEDS NO. LUNS PER TASK
ER: NO CHANGE TO VOLUME, USER NUMBER, OR CATALOG
ER: NO ROOM IN RETURN STACK SPACE (TOO MANY ARGUMENTS)
ER: NO. ARGUMENTS EXCEEDS STACK SPACE
ER: NOT ALLOWED IN BATCH MODE
ER: NOT ALLOWED ON LINE, SUBMIT IN BATCH MODE
ER: NOT USER = 0
ER: NUMERICAL CONVERSION ERROR
ER: OPTION LETTERS ARE A-O ONLY
ER: RECORD NOT FOUND
ER: TASK NOT FOUND
ER: USER NO. NOT FOUND
ER: USER NUMBER NOT FOUND
ER: VALUE SIZE TOO BIG
ER: VALUES REVERSED
ER: YOU FAILED IN YOUR ATTEMPT TO CRASH THE SYSTEM
LOGON REJECTED, LOGGED OFF
RX=\$xxxx RA=\$xxxx RD=\$xxxx
WARNING: NO."<" NOT EQUAL TO NO.">"
ssss: DONE STATUS = xxxx:mmmm
ttt1: ABORTED BY ttt2 = xyzz
tttt ssss: ABORTED
tttt: ABORTED BY &SCT = 80zz
tttt: ABORTED BY EXEC = 80zz

VALID

(none)

A

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APPENDIX B
ABORT CODES

B

80zz	DESCRIPTION
===== Abort code generated by online session control (&SCT):	
8006	User terminal request Abort requested by user at terminal.
8009	Break notification BREAK key pressed.
===== Abort code generated by the Executive if any of the following conditions occur and no user exception handler exists:	
8010	Bus error This task has attempted to access a memory location outside its own address space.
8011	Address error This task has attempted to access a word or a longword operand, or an instruction at an odd address.
8012	Illegal instruction This task has attempted to execute a bit pattern that is not the bit pattern of a legal instruction.
8013	Zero divide Task attempted to divide by zero.
8014	CHK instruction An error condition was detected when the CHK instruction was executed.
8015	TRAPV instruction An overflow condition was detected when the TRAPV instruction was executed.
8016	Privilege violation User task attempted to execute one of the following privileged instructions: STOP, RESET, RTE, MOVE to SR, ANDI to SR, EORI to SR, ORI to SR, or MOVE USP.
8017	Unimplemented instruction This task attempted to execute an instruction with the bit pattern "1010" in bits 15 through 12.
8018	Unimplemented instruction This task attempted to execute an instruction with the bit pattern "1111" in bits 15 through 12.
8040	Exception monitor aborted This task was running under the control of an Exception Monitor when the Exception Monitor aborted.

B

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APPENDIX C
FHS/IOS ERROR CODES

TABLE C-1. File Handling Service (FHS) Error Messages

zz	DESCRIPTION
00	No error.
01	FHS trap server does not exist. Probably caused by system problem.
02	Invalid command. Command specified is not valid for device, reserved bytes in FHS block are not zero, or options conflict with command.
03	Invalid logical unit. An LUN was specified that is larger than the maximum accommodated by the system. The maximum LUN is a SYSGEN parameter.
04	Volume error. Volume specified is not mounted.
05	Duplicate filename. On Allocate call, file already exists.
06	File descriptor error. Filename, extension, or catalog not all alphanumeric with first character alphabetic.
07	Protect code error. Read/write protect codes in parameter block conflict with file/device codes.
08	Record length error. On an Allocate request, record length specified not even or too large for data block size.
09	Shared segment error. On an Assignment request, user's passed shared segment logical address conflicts with other address space or user has too many segments. Attempted change LUN request with shared segment.
0A	Insufficient directory space. On an attempt to allocate a file or rename a file, disk space is insufficient to insert the new directory entry.
0B	Access permission error. On an Assignment request, requested access permission conflicts with existing access permission. On other FHS requests requiring an assignment, file/device not assigned EREW.
0C	Insufficient system space. Not enough memory exists to allocate a segment for the file's data block and FAB. This error could occur on assignment if a shared segment is requested, or error could occur on first I/O request.

C

TABLE C-1. File Handling Service (FHS) Error Messages (cont'd)

ZZ	DESCRIPTION
0D	Invalid assignment. On an Assignment request, LUN requested is already assigned. On other FHS requests requiring an assignment, LUN specified is not assigned.
0E	Invalid device type. An Allocate or Delete request was made for a non-random access device.
0F	Buffer overflow. On a Fetch-Device-Mnemonics request, the user parameter block specified for the returned information is not large enough to accommodate all device mnemonics.
10	Invalid taskname. On a change LUN request, the taskname or session specified in the parameter block is for a non-existent task.
11	Invalid buffer address. Address of user's parameter block for returned information on Fetch-Next-Directory-Entry or Fetch Device-Mnemonics request is not in user's segment space or not in read/write segment; or address is odd.
12	Invalid file type. On an Allocate request, file type specified is invalid.
13	Internal FHS error caused by system problem.
14	Invalid parameter block address. User's FHS block not in his segment space or not in read/write segment; or address is odd.
15	Data block length error. On an Allocate request, the data block size specified for a non-contiguous file is less than 4.
16	Size error. On an Allocate request, size specified for a contiguous file is zero.
17	Non-existent filename. On an Assignment or Delete request, the file specified does not exist.
18	End of directory. Returned on a Fetch-Next-Directory-Entry request when no more directory entries exist.
19	Key length error. On an Allocate request, the key length specified for an indexed sequential file is less than 4 or greater than 100, not even, or greater than the record length.

C

TABLE C-1. File Handling Service (FHS) Error Messages (cont'd)

ZZ	DESCRIPTION
1A	FAB length error. On an Allocate request, the FAB length specified for a non-contiguous file is greater than 20.
1B	Default volume not defined on Fetch-Default-Volume request.
1C	File not ready to output.
1D	User number not owner or user 0.

TABLE C-2. Input/Output Service (IOS) Error Messages

ZZ	DESCRIPTION
00	No error.
40	Invalid device configuration parameter. This error indicates an attempt was made to configure a parameter for a device on the bus that is valid for the bus itself.
41	Invalid system controller configuration parameter. An attempt was made to configure the bus with system controller capabilities, but the VME300 system controller DIP switch (part of S1) was not set to indicate the interface has system controller capabilities.
42	Invalid primary address. An attempt was made to configure a device (either the bus or a busable device) with an invalid General Purpose Interface Bus (GPIB) primary address. The allowable range of primary addresses is 0 through 30.
81	IOS trap server does not exist. Most likely caused by system problem.
<u>PARAMETER BLOCK ERRORS</u>	
82	Invalid function. Function specified is not valid for device, reserved bytes in IOS block are not zero, or options conflict with function. Also occurs if current access permission does not permit requested function (i.e., Write request with Read-Only access permission).
83	Invalid logical unit. Logical unit specified is not assigned.



TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

ZZ	DESCRIPTION
84	Invalid data buffer. Buffer starting address is odd or ending address is less than starting address. Can also occur if data buffer is incorrect size for specific I/O request (not multiple of 256 bytes for contiguous file or volume I/O, not equal to record size for fixed length records, larger than data block length for variable length records, larger than 256 bytes for record write with space compression, not equal to data block size for block read, or greater than data block size for block write). If a shared segment was requested at assignment, the error will occur if the data buffer specified on record I/O is in the same area as the shared segment or if the shared segment is not used when doing block I/O.
85	Invalid random record. On a Block-I/O request to a non-contiguous file, the random record number specified on a Random-I/O request does not correspond to the first sector of a data block. On a Write request, no data is transferred. On a Read request, the data block is transferred and the random record number in the IOS parameter block is updated to contain the logical sector number corresponding to the first sector in the data block that contained the requested sector.
86	Invalid parameter block address. User's IOS block not in his segment space or is not in read/write segment; or address is odd.
87	Protect code error. Write protected file targeted by Write request. Volume-Read request made by non-owner of volume.
88	Configuration parameter block error.
<u>DEVICE INDEPENDENT ERRORS</u>	
C1	Buffer overflow. On a Record-Read request, user's buffer is not large enough to accommodate entire record; or for variable length record requiring space expansion, record is larger than 256 bytes.
C2	End of file. Attempted to read starting beyond EOF or attempted to write logical record or block starting beyond EOF plus one.
C3	End of volume. On device or volume I/O, attempted to start read beyond end of device; or on Write request, attempted to write beyond end of device.
C4	Invalid or empty FAB. File integrity destroyed due to possible system failure.

TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

ZZ	DESCRIPTION
C5	Invalid transfer for device. Device does not support option requested (e.g., Binary or Image request to device that does not support binary or image).
C6	Break condition. I/O was terminated by BREAK key.
C7	Internal I/O error caused by system problem.
C8	FAB/data block conflict. Data altered in shared segment specified at assignment. Possibly caused by system problem.
C9	Record does not exist. Logical record specified on Record-Update or Delete request does not exist. Record with key specified on Random-Read request does not exist.
CA	Record already exists. Write-Record request specified existing record.
CB	Record overflow. Data altered in shared segment specified at assignment extending segment length beyond end of data block. Possibly caused by system problem.
CC	Key error or FAB/key conflict. Data altered in shared segment specified at assignment, causing keys to be out of sequence.
CD	Insufficient disk space. No space available on volume for FAB or data block or contiguous file space.
CE	Unrecoverable file error. Prior error caused file to be left in such a state that no more I/O can be done. File must be closed.
CF	File space allocation/deallocation conflict. FAB of file in error.
<u>DEVICE DEPENDENT ERRORS</u>	
D1	Unrecoverable device error.
D2	Data compare error.
D3	Sector protect error.
D5	MVME300 interface error detected. Error occurs only when the GPIB driver detects a Service Request event (SRQ) on the bus and, after polling all devices, finds no device requesting service and that the bus SRQ is still TRUE.



TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

ZZ	DESCRIPTION
D8	TMS9913A detected bus handshake error. Error indicates that the ERR bit was set in the TMS9914A interrupt status register. Refer to the TMS9914A Data Manual for more detail.
D9	Command not valid for current GPIB driver mode. Error occurs if a command is issued that conflicts with the current GPIB mode. An example is to issue a Device Control Command (i.e., Clear Device "n") but the GPIB system is currently in Talker/Listener mode. (This may be the result of a previous command or from another controller on the bus taking control.) Error also occurs if an attempt is made to do an I/O operation to an invalid device secondary address.
DA	Command invalid for busable device. Error occurs when the user attempts to set either the serial poll or parallel poll status for a device other than the bus (MVME300). (The status set commands are valid only for the bus and cause the MVME300 to respond appropriately when polled by another active controller.)
DB	GPIB I/O driver runtime error. Error is returned if the driver detects an invalid function or command value in the IOS parameter block for the current command.
DC	Invalid secondary address for pending I/O operation. Error occurs if the user issues a bus secondary address I/O request with a secondary address different from the one pending from the currently active controller (e.g., the active controller addressed the MVME300 to talk on secondary address 30 but the user now issues a talk on secondary address 24). Error also occurs if the reverse sequence occurs (i.e., the user issues a secondary address I/O request; the controller in charge addresses the MVME300 with a different secondary address).
DD	Invalid request for pending interrupt. Error occurs if the GPIB I/O driver detects an interrupt from the MVME300 out of sequence. This may occur because of a bus malfunction, the active controller cancelling an I/O request to the MVME300, or some other invalid sequence preventing the GPIB driver from completing the current I/O operation.
DE	Error occurs if a command issued to the bus requires system controller capabilities and the bus is not so configured. Error also occurs if an attempt is made to set the Parallel Poll Status (PPS) and the PP configuration has not been set yet. Another possible cause of this error is to issue a Take-Control or Request-Control command and the ATN line is already true. This indicates that the bus is already in control or some other device is currently in control of the bus.

TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

zz	DESCRIPTION
E1	Device not ready.
E2	Device busy.
E3	Data CRC error.
E4	Write protected device. The diskette has the write protection tab removed.
E5	Deleted data mark detected.
E6	Timeout. Device did not respond within allotted time.
E7	Invalid sector address. Probably system problem. All invalid sector addresses normally detected before device driver is called.
E8	Checksum error/framing error. Data transfer error between MC68000 and Intelligent Peripheral Controller (IPC).
E9	Disk restore error.
EA	Data overrun.
EB	Device status changed. Disk device that had been online went not ready and then ready again. Any files that had been open when this happened must be closed, without performing any more I/O. It is important to not open a disk drive door while any files are open because files can no longer be updated at close time. This may result in lost data because disk updates do not necessarily take place immediately, but may be kept in memory until close.
EC	Track/Sector ID not found. Either the ID header or the Data Mark has not been found by the disk controller. This can also occur if a track/sector has been formatted as an alternate and has been read directly.
ED	Address mark CRC error.
EE	Seek error.
EF	Bad sector



TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

zz	DESCRIPTION
<u>CHANNEL ERRORS</u>	
F1	Channel busy.
F2	Channel Direct Memory Access (DMA) error.
F3	Unrecoverable channel error.
F4	Controller error.
F5	Device configuration.
F6	DMA bus error.
F7	DMA mapping error.
F8	DMA controller error.

C

APPENDIX D

ERROR MESSAGE HANDLER CODES

Errors internal to the Error Message Handler (EMH) program will have the same basic header format as all other EMH messages. The <phrase> part of the header line is:

```
EMH ERRORzz $xxxxxxx
```

where:

zz is one of the following internal error numbers.

xxxxxxx is a <binary key> entry in Appendix E.

zz MEANING

- 0 Available for future use.
- 1 Error encountered changing the user's output LUN.
- 2 Error encountered trying to assign ERRORMSG.SY. This occurs if an exclusive read or write assignment exists on the system volume.
- 3 Error encountered trying to read the user's <binary key> value. The <binary key> value does not exist in the ERRORMSG.SY file, but it could be added.
- 4 Error encountered trying to read the <binary key> value of sentinel code "K".
- 5 Available for future use.
- 6 Error encountered attempting to write to the user's output device.
- 7 Error due to nested "K" sentinels.
- 8 The error message being built expanded beyond its allocated buffer (such that the source creating the message was destroyed).
- 9 Error encountered receiving LUN from user.
- 10 Error encountered sending LUN back to user.
- 11 Error encountered trying to move the caller's A0 parameter block or the caller's plug pool.
- 12 The plug pool size specified by the caller exceeds the maximum allowed size of 96. The \$xxxxxxx value is the plug pool size requested.



- 13 On examination of the plug pool, an insufficient number of plug pool delimiters was discovered. The \$xxxxxxx value is the number of delimiters originally requested.

When a user is executing multiple tasks from a given terminal, it is possible that an error message will not be displayed. This occurs if one task has the output device in a busy state, requesting input, and another task would like to output an error message to that device.

D

APPENDIX E
ERRORMSG.SA FILE

The ERRORMSG.SA file is read by the Error Message File Generator (EMFGEN) program, which then creates the ERRORMSG.SY file that is used at runtime by the EMH program. Entry into the file is by the first column of numbers, called the <binary key>.

The contents of the ERRORMSG.SA file are listed below. However, this listing differs from the actual ERRORMSG.SA file, in that the <binary key>s are rearranged here in ascending numerical order.

For a further description of the ERRORMSG.SA file, its format and sentinels, refer to the EMFGEN write-up in the M68000 Family VERSAdos System Facilities Reference Manual.

```

*-----
*
*           ERROR MESSAGE LINE FORMAT
*-----
*
*   COLUMNS   CONTENT
*   1          * TREATS REMAINDER OF LINE AS A COMMENT
*   1- 8       KEY VALUE OF ERROR MESSAGE IN HEX
*   9          SPACE DELIMITER
*   10-89      ERROR MESSAGE TEXT AND SUBSTITUTION SENTINELS
*-----
*
*           ERROR CODE KEY VALUE FORMAT
*
*   BITS       INTERPRETATION (of register D0 following trap call)
*   0-15       ERROR STATUS CODE
*   16-26      DIRECTIVE NUMBER
*   27-30      TRAP NUMBER (0 for non-trap related errors)
*   31         RESERVED (For internal error classification)
*
*           BIT POSITIONS
*
*3 3 2 2   2 2 2 2   2 2 2 2   1 1 1 1   1 1 1 1   1 1 0 0   0 0 0 0   0 0 0 0
*1 0 9 8   7 6 5 4   3 2 1 0   9 8 7 6   5 4 3 2   1 0 9 8   7 6 5 4   3 2 1 0
*
*X X X X   X X X X   X X X X   X X X X   X X X X   X X X X   X X X X   X X X X
*-----
*
*           SUBSTITUTION SENTINEL FORMAT IS \Soo[11][kkkk]
*
*   Where \   is the required Sentinel Flag
*           S   is one of the Sentinel Codes explained below
*           oo  is the decimal offset from reg A0 to be converted
*               and inserted at this point in the error message.
*               A0 normally points at an FHS or IOS block.
*           11  is a length value required only for Sentinel C
*           kkkk is a key value required only for Sentinel K
*-----

```

E

```

*          SUBSTITUTION SENTINEL CODE INTERPRETATIONS
* \Boo    Convert 1 byte at offset oo from A0 to Decimal ASCII
* \Woo    "    2 bytes    "    "    "
* \Loo    "    4    "    "    "    "
* \Xoo    "    1 byte    "    "    Hex ASCII
* \Yoo    "    2 bytes    "    "    "
* \Zoo    "    4    "    "    "    "
* \Cooll  Copy  11 bytes    "    "    String length = 11
* \Too    Translate code at offset oo from A0 to ASCII prose from this file.
*          Error Message ttoocccc contains the prose where
*          tt = original TRAP code + TRAP #4 (bit 29)
*          oo = offset from A0 of code
*          cccc = code value to be interpreted
* \Aoo    Convert register A0 to Hex ASCII (oo is always 00)
* \Ioo    Copy  ?? bytes at offset 0 from Text Plug #oo until an illegal
*          ASCII char {FF} flags end of string.
* \Kkkkk  Copy  all of Error Message #0000kkkk expanding any of it embedded
*          sentinels at this point before continuing the interpret-
*          ation of this message. CRLF issued automatically before
*          the insertion of message kkkk.
*
* \Doo    Eliminate the standard error message text of taskname, session
*          number, user key value, error originator, and the variable message
*          separator (**) from the error message to be displayed.

```

TYPICAL PROSE TO CAUSE AN ERROR MESSAGE FROM THIS FILE TO BE PRINTED

```

*          . . .
*          LEA      IOSBLK,A0      Where IOSBLK is usually a FHS or IOS
*          TRAP     #n              Where n is usually 2 or 3
*          BEQ      CONT           WHERE CONT IS LABEL FOR GOOD TRAP CALL
*          MOVEM.L  DO/A0,ERRPBLK  Save regs in ERRPBLK
*          LEA      ERRPBLK,A0     Where ERRPBLK is in the format below
*          MOVE.L   #2,DO          Error handler is directive #2
*          TRAP     #4              Invokes the Error handler
*          . . .
* ERRPBLK DC.L    0                USER REG DO  CONTAINS ERRMSG KEY VALUE
* ERRPBA0 DC.L    0                USER REG A0  POINTS AT I/O CONTROL BLK
* ERRPOPT DC.B    0                ERROR OPTIONS FUTURE USE
* ERRPLDF DC.B    0                USER LDPLUN  LUN FOR SCREEN
* ERRPQUY DC.B    0                FUTURE USE
* ERRPCDF DC.B    0                FUTURE USE
* ERRPLUGB DC.L   0                BEGINNING OF USER TEXT PLUG POOL
* ERRPLUGE DC.L   0                END OF USER TEXT PLUG POOL

```

This plug pool may contain multiple text strings delimited by Hex FF's. Maximum pool length is 96 bytes. Sentinels \I01,\I02 etc. cause the deblocked text to be inserted into the basic error message format. Plugs are numbered beginning with one so \I03 accesses the text following the second FF delimiter. This plug capability provides the caller with a way to include variable message content from a source external to the parm block addressed by register A0.

```

*-----*
* The utility EMFGEN converts the leading ASCII hex number to a 4 byte
* binary key value in the process of creating the indexed sequential
* file ERRORMSG.SY used by the TRAP #4 ERROR MESSAGE HANDLER.
*     NOTE : ERROR MESSAGE 00000000 IS A NULL
*           AND CAN BE USED IN CONJUNCTION WITH ERRPLUGS TO PRINT
*           ONLY THE MESSAGE CONTAINED IN THE PLUGPOOL
*           THIS MERELY RELIEVES THE CALLER FROM DEFINING IOS BLOCKS
*-----*

```

```

*-----*
*           ERRORMSG FILE GENERATION UTILITY EMFGEN MESSAGES
*-----*

```

```

*           KEY VALUES MUST BE HEX -- UPPER LIMIT IS 000000FF
*

```

```

00000000 \I01\D00
*

```

```

0000000C CMD=\T00 OPT=\T02 LU=\B05
0000000D CMD=\T00 OPT=\T02 LU=\B05 DEVICE=\C0604
0000000E CMD=\T00 OPT=\T02 LU=\B05 PSN=\Z08 DEVICE=\C0604
0000000F FILE=\C0604:\W10.\C1208.\C2008.\C2802
00000010 CMD=\T00 OPT=\T02 LU=\B05 PSN=\Z36
00000011 USE DEFAULT VOLUME = \C0804:\W14.\C1608.
00000012 USER NUMBER = \W34
00000013 USER TASK = \C2404
00000014 SESSION = \C0404
00000015 TERMINAL = \C2804
00000016 TASK = \C0004, SESSION = \C0404
00000017 TASK = \C0004, SESSION = \L04
00000018 -----> BREAK!
*

```

```

*-----*
*           NON-TRAP RELATED MESSAGES
*

```

```

*           REFERENCE IOE.SA FOR APPROPRIATE EQUATES
*

```

```

00000100 INVALID ENTRY
00000101 SUBSTITUTION CAUSED BUFFER OVERFLOW
00000102 ARGUMENT NOT FOUND
00000103 INVALID OPTION
00000104 INSUFFICIENT MEMORY
00000105 OPTION CONFLICT
00000106 COMMAND LINE SYNTAX ERROR
00000107 INVALID DEVICE NAME FOR REQUEST
*

```

```

*-----*

```



```

*
*           THESE MESSAGES MUST BE THE FIRST MESSAGES IN THE FILE
*
000002FE KEY VALUE \IO1 WILL NOT BE ADDED TO FILE ** INPUT ERROR\DOO
000002FF KEY VALUE \IO1 ERROR MESSAGE ADDED BUT TRUNCATED TO 84 BYTES\DOO
*

```

```

*-----*
*
*           USER SESSION MANAGEMENT MESSAGES
*

```

```

00000300 \DOO\IO1 START SESSION \C0404 USER = \W42
00000301 \DOO\IO1 END SESSION \C0404 USER = \W42
00000302 \DOO\K0018
00000303 SYSTEM VOLUME = \C0004:\K0011\K0012\K0013\K0014\K0015\DOO
00000304 OPTION(S) SET = \IO1\DOO
00000305 \DOO
00000306 \DOO\IO1
00000307 \DOO\C0004 \C1204: LOADED
00000308 \DOO\C0004 \L12: LOADED
00000309 \DOO\C0004 \C0404: STOPPED
0000030A \DOO\C0004 \L04: STOPPED
0000030B \DOO\C0004 \C0404: CONTINUED
0000030C \DOO\C0004 \L04: CONTINUED
0000030D \DOO\C0004 \C0404: TERMINATED
0000030E \DOO\C0004 \L04: TERMINATED
0000030F \DOO\C0004 \C0404: ABORTED
00000310 \DOO\C0004 \L04: ABORTED
00000311 \DOOLOGON REJECTED, LOGGED OFF
00000312 \DOOWARNING: NO."<" NOT EQUAL TO NO.">"
00000313 \DOO----->CAUTION: YOU WILL CHANGE PASSWORD FOR USER = 0 <-----
00000314 \DOOER: NOT USER = 0
00000315 \DOOER: "\C0008" COMMAND NOT FOUND
00000316 \DOOER: "\C0604" VOLUME NOT FOUND
00000317 \DOOER: NO. ARGUMENTS EXCEEDS STACK SPACE
00000318 \DOOER: TASK NOT FOUND
00000319 \DOOER: INVALID TASKNAME
0000031A \DOOER: LUN \C0001 NOT ASSIGNED
0000031B \DOOER: CANNOT BE CONTINUED, MUST BE STARTED
0000031C \DOOER: MUST BE STARTED INDIVIDUALLY BY TASKNAME
0000031D \DOOER: NESTING LEVEL EXCEEDS NO. LUNS PER TASK
0000031E \DOOER: NO ROOM IN RETURN STACK SPACE (TOO MANY ARGUMENTS)
0000031F \DOOER: DEVICE NOT ALLOWED
00000320 \DOOER: "IF" LEVEL EXCEEDED
00000321 \DOOER: =/ENDIF's EXCEED =/IF's
00000322 \DOOER: CHAIN COMMAND SYNTAX
00000323 \DOORX=\Y00 RA=\Y02 RD=\Y04
00000324 \DOOER: BATCH NOT ALLOWED IN BATCH MODE
00000325 \DOOER: LOGON TERMINAL NOT AVAILABLE IN BATCH MODE
00000326 \DOOER: BATCH SESSION NUMBER
00000327 \DOOBATCH SESSION NOT FOUND
00000328 \DOOER: USER NUMBER NOT FOUND
00000329 \DOOER: NOT ALLOWED IN BATCH MODE

```

```
0000032A \D00\C0404: QUEUED
0000032B \D00\C0404: RUNNING
0000032C \D00\C0404: DONE STATUS = \Y02:\T02
0000032D \D00ER: BATCH QUEUE FULL
0000032E \D00BATCH JOB \C0404 CANCELLED
0000032F \D00ER: RECORD NOT FOUND
00000330 \D00ER: USER NO. NOT FOUND
00000331 \D00ER: INVALID USER NO.
00000332 \D00ER: MUST BE IN CHAIN MODE
00000333 \D00ER: VALUE SIZE TOO BIG
00000334 \D00ER: INVALID FILE DESCRIPTOR
00000335 \D00ER: NO CHANGE TO VOLUME,USER NUMBER, OR CATALOG
00000336 \D00ER: DEFAULT VOLUME NOT CHANGED
00000337 \D00ER: OPTION LETTERS ARE A-O ONLY
00000338 \D00ER: NOT ALLOWED ON LINE, SUBMIT IN BATCH MODE
00000339 \D00ER: INVALID LU NUMBER
0000033A \D00ER: FILE/DEVICE MISSING
0000033B \D00ER: ACCESS PERMISSION
0000033C \D00ER: VALUES REVERSED
0000033D \D00ER: YOU FAILED IN YOUR ATTEMPT TO CRASH THE SYSTEM
0000033E \D00ER: COMMAND SYNTAX
0000033F \D00ER: FIELD SIZE EXCEEDED
00000340 \D00ER: FILE WAS NOT ASSIGNED
00000341 \D00ER: NUMERICAL CONVERSION ERROR
```

*

*

* PASCAL ERROR MESSAGES

*

```
00001001 Case index out of range\D00
00001002 Value out of range\D00
00001004 Integer division by zero\D00
00001008 Bus error - bad pointer or stack/heap overflow\D00
00001010 Stack/heap overflow\D00
00001011 Address error - bad pointer or stack/heap overflow\D00
00001012 Memory allocation error during processing Z option\D00
00001022 Read past end of file\D00
00001028 Illegal filename\D00
00001031 Integer expected in text file\D00
00001032 Real expected in text file\D00
00001033 Boolean expected in text file\D00
00001040 Too many files in use\D00
00001041 Option error in 'reset' or 'rewrite'\D00
00001042 Too many command line fields\D00
00001043 File not open at input\D00
00001044 File not open at output\D00
00001051 Real number out of range in text file\D00
00001052 Attempt to enable 6809 floating point trap\D00
00001053 Attempt to set 6809 floating point exception\D00
00001054 Attempt to set 6809 floating point precision mode\D00
00001062 Invalid base for integer in text file\D00
00001063 Invalid digit for based integer in text file\D00
00001070 Attempt to take NAN(0)\D00
00001099 Illegal TRAP #14 error code - internal Pascal error\D00
```

```
*
*-----*
*
*          PASCAL FLOATING POINT ERROR MESSAGES
*
00002000 No invalid operation error\D00
00002100 Illegal SQRT argument\D00
00002200 (+infinity) + (-infinity) in affine mode/D00
00002300 Conversion of a not-a-number to an integer/D00
00002400 Illegal division/D00
00002500 An argument was a trapping not-a-number\D00
00002600 Unordered condition tested by predicate other than = or <>\D00
00002700 Projective closure use of +/- infinity\D00
00002800 0 * infinity\D00
00002900 Illegal REM arguments\D00
00002A00 Binary-to-decimal or decimal-to-binary conversion out of range\D00
00002B00 Moved single precision unnormalized to double precision\D00
00002C00 Returned unnormalized number to single or double precision\D00
00002001 Invalid operation\D00
00002002 Overflow\D00
00002004 Underflow\D00
00002008 Division by zero\D00
00002010 Inexact result\D00
00002020 Overflow on conversion from floating point to integer\D00
00002040 Reserved exponent value seen as input operand\D00
*
*-----*
*
*          TRAP #1 RELATED MESSAGES
*
08010003 NONEXISTENT TARGET TASK (GTSEG)\K0016
08010005 SEGMENT TABLE FULL (GTSEG)
08010006 DUPLICATE SEGMENT NAME (GTSEG)
08010007 MEMORY REQUESTED DOES NOT EXIST (GTSEG)
08010008 INSUFFICIENT MEMORY (GTSEG)
0801000A NON-DORMANT TARGET TASK (GTSEG)
0801000B LOGICAL ADDRESS CONFLICT (GTSEG)
08020003 NONEXISTENT TARGET TASK (DESEG)\K0016
08020007 NONEXISTENT SEGMENT NAME (DESEG)\K0016
0802000A NON-DORMANT TARGET TASK (DESEG)
08040005 SEGMENT TABLE FULL (ATTSEG)
08040006 DUPLICATE SEGMENT NAME (ATTSEG)
08040007 NONEXISTENT SEGMENT NAME (ATTSEG)\K0016
0804000B LOGICAL ADDRESS CONFLICT (ATTSEG)
08060003 SOURCE TASK NOT FOUND (MOVELL)
08060007 DESTINATION TASK NOT FOUND (MOVELL)
08060009 USER TO SYSTEM TASK NOT ALLOWED (MOVELL)
0806000B ADDRESSES DIFFERENT EVEN/ODD BOUNDARY (MOVELL)
08090003 TARGET TASK NOT FOUND (RCVSA)
080B0006 DUPLICATE TASKNAME (CRTCB)
080B0008 INSUFFICIENT MEMORY (CRTCB)
080D0003 TASK DOES NOT EXIST (START)\K0016
080D0023 TASK DOES NOT EXIST (START)\K0017
080D000A TASK NOT DORMANT (START)
```

08100003 TARGET TASK DOES NOT EXIST (TERMT)\K0016
08100023 TARGET TASK DOES NOT EXIST (TERMT)\K0017
08100006 TARGET TASK ALREADY IN TERMINATION (TERMT)
08100009 USER TASK CAN NOT TERM SYSTEM TASK OR SELF\K0016
08170003 TARGET TASK DOES NOT EXIST (TSKATTR)\K0016
08170023 TARGET TASK DOES NOT EXIST (TSKATTR)\K0017
0817000A TASK IS TERMINATING (TSKATTR)\K0016
08190003 TARGET TASK DOES NOT EXIST (STOP)\K0016
08190023 TARGET TASK DOES NOT EXIST (STOP)\K0017
08190006 TARGET TASK ALREADY STOPPED
08190009 USER TASK CAN NOT STOP SYSTEM TASK\K0016

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*
*
* IOS ERROR MESSAGES
*

1000000C INSUFFICIENT SYSTEM SPACE \K000C
10000082 INVALID FUNCTION \K000C
10000083 INVALID LOGICAL UNIT \K000C
10000084 INVALID DATA BUFFER \K000C BUFF=\Z12
10000085 INVALID RANDOM RECORD \K000C RRN=\Z08
10000086 INVALID PARAM BLOCK ADDRESS A0=\A00
10000087 PROTECT CODE ERROR \K000C
100000C1 BUFFER OVERFLOW \K000C
100000C2 END OF FILE \K000C
100000C3 END OF VOLUME \K000C
100000C4 INVALID OR EMPTY FAB \K000C
100000C5 INVALID TRANSFER FOR DEVICE \K000C
100000C6 BREAK CONDITION \K000C
100000C7 INTERNAL IO ERROR \K000C
100000C8 FAB/DATA BLOCK CONFLICT \K000C
100000C9 RECORD DOES NOT EXIST \K000C
100000CA RECORD ALREADY EXISTS \K000C
100000CB RECORD OVERFLOW/TOO MANY RECORDS IN DATA BLOCK \K000C
100000CC KEY ERROR, FAB KEY CONFLICT \K000C
100000CD DISK SPACE FULL \K000D
100000D1 UNRECOVERABLE DEVICE ERROR \K000D
100000D2 DATA COMPARE ERROR \K000E
100000D3 SECTOR PROTECT ERROR \K000E
100000D4 DEVICE NOT MOUNTED
100000E1 DEVICE NOT READY \K000D
100000E2 DEVICE BUSY \K000D
100000E3 DATA CRC ERROR \K000E
100000E4 WRITE PROTECTED DEVICE \K000D
100000E5 DELETED DATA MARK DETECTED \K000E
100000E6 TIMEOUT \K000D
100000E7 INVALID SECTOR ADDRESS \K000D
100000E8 CHECKSUM ERROR \K000D
100000E9 DISK RESTORE ERROR \K000D
100000EA DATA OVERRUN \K000D
100000EB DEVICE STATUS CHANGED \K000D
100000EC TRACK/SECTOR ID NOT FOUND \K000E
100000ED ADDRESS MARK CRC ERROR \K000E

 E

100000EE SEEK ERROR \K000D
100000EF BAD SECTOR \K000E
100000F1 CHANNEL BUSY \K000D
100000F2 CHANNEL DMA ERROR \K000D
100000F3 CHANNEL UNRECOVERABLE CHANNEL ERROR \K000D
100000F4 CONTROLLER ERROR \K000D
100000F5 DEVICE CONFIGURATION ERROR /K000D
100000F6 DMA BUS ERROR /K000D
100000F7 DMA MAPPING ERROR /K000D
100000F8 DMA CONTROLLER ERROR /K000D

*

*

* FHS ERROR MESSAGES

*

18000002 INVALID COMMAND \K000C
18000003 INVALID LOGICAL UNIT \K000C
18000004 INVALID OR NONEXISTENT VOLUME \K000C VOLN=\C0604
18000005 DUPLICATE FILENAME \K000C \K000F
18000006 FILE DESCRIPTOR ERROR \K000C \K000F
18000007 PROTECT CODE ERROR \K000C \K000F
18000008 RECORD LENGTH ERROR \K000C \K000F RECL=\W34
18000009 SHARED SEGMENT ERROR \K000C \K000F
1800000A INSUFFICIENT DIRECTORY SPACE \K000C \K000F
1800000B ACCESS PERMISSION ERROR \K000C \K000F
1800000C INSUFFICIENT SYSTEM SPACE \K000C \K000F
1800000D ASSIGNMENT ERROR \K000C
1800000E INVALID DEVICE TYPE \K000C
1800000F BUFFER OVERFLOW \K000C
18000010 INVALID TASKNAME \K000C
18000011 INVALID BUFFER ADDRESS \K000C BUFF=\Z12
18000012 INVALID FILE TYPE \K000C \K000F
18000013 INTERNAL FHS ERROR \K000C \K000F
18000014 INVALID PARAM BLOCK ADDRESS AO=\A00
18000015 DATA BLOCK LENGTH ERROR \K000C \K000F SIZE=\Z36
18000016 SIZE ERROR K000C K000F SIZE=\Z36
18000017 NONEXISTENT FILENAME \K000C \K000F
18000018 END OF DIRECTORY \K000C
18000019 KEY LENGTH ERROR \K000C \K000F SIZE=\Z36
1800001A FAB LENGTH ERROR \K000C \K000F SIZE=\Z36
1800001B DEFAULT VOLUME NOT DEFINED \K000C
1800001C INVALID STATE FOR COMMAND
1800001D USER NOT OWNER OR ADMINISTRATOR
180000CD DISK SPACE FULL \K000C \K000F
180000D1 UNRECOVERABLE DEVICE ERROR \K000C \K000F
180000D2 DATA COMPARE ERROR \K0010 \K000F
180000D3 SECTOR PROTECT ERROR \K0010 \K000F
180000E1 DEVICE NOT READY \K000C \K000F
180000E2 DEVICE BUSY \K000C \K000F
180000E3 DATA CRC ERROR \K0010 \K000F
180000E4 WRITE PROTECTED DEVICE \K000C \K000F
180000E5 DELETED DATA MARK DETECTED \K0010 \K000F
180000E6 TIMEOUT K000C \K000F
180000E7 INVALID SECTOR ADDRESS \K000C \K000F

```

180000E8 CHECKSUM ERROR \K000C \K000F
180000E9 DISK RESTORE ERROR \K000C \K000F
180000EA DATA OVERRUN \K000C \K000F
180000EB DEVICE STATUS CHANGED \K000C \K000F
180000EC TRACK/SECTOR ID NOT FOUND \K0010 \K000F
180000ED ADDRESS MARK CRC ERROR \K0010 \K000F
180000EE SEEK ERROR \K000C \K000F
180000EF BAD SECTOR \K0010 \K000F
180000F1 CHANNEL BUSY \K000C \K000F
180000F2 CHANNEL DMA ERROR \K000C \K000F
180000F3 UNRECOVERABLE CHANNEL ERROR \K000C \K000F
180000F4 CONTROLLER ERROR \K000C \K000F
180000F5 DEVICE CONFIGURATION ERROR \K000C \K000F
180000F6 DMA BUS ERROR \K000C \K000F
180000F7 DMA MAPPING ERROR \K000C \K000F
180000F8 DMA CONTROLLER ERROR \K000C \K000F

```

```

*
*      TRAP #4 RELATED MESSAGES
*

```

```

20000001 UNDEFINED DIRECTIVE NUMBER
20000012 LOAD SEGMENT LOGICAL ADDRESS EXCEEDS SEGMENT BOUNDARIES
20000013 FILE REFERENCED IS NOT A LOAD FILE

```

```

*
*      ** TRANSLATE TABLE FOR NON TRAP MESSAGES
*

```

```

2002A006 CANCELLED WAITING IN QUEUE
2002C001 NORMAL TERMINATION FROM RUNNING
2002C006 CANCELLED WHILE RUNNING
2002C009 CANCELLED DUE TO BREAK
2002C010 ABORTED DUE TO BUS ERROR (ADDRESS)
2002C011 TERMINATED DUE TO BUS ERROR (ADDRESS)

```

```

*
*      TRANSLATE TABLE FOR IOSFCT FIELD
*

```

```

30000001 READ
30000002 WRITE
30000004 OUTPUT WITH INPUT
30000008 UPDATE
30000010 DELETE
30000020 FORMAT
30000101 POSITION
30000102 REWIND
30000104 TEST I/O COMPLETE
30000108 WAIT
30000110 HALT I/O
30000120 BREAK

```



*
* TRANSLATE TABLE FOR FHSCMD FIELD
*

38000001 CHECKPOINT
38000002 DELETE
38000004 CLOSE
38000008 CHANGE PROTECT CODES
38000010 RENAME
38000020 CHANGE ACCESS
38000040 ASSIGN
38000080 ALLOCATE
380000C0 ALLOCATE/ASSIGN
38000108 FETCH DEFAULT VOLUME
38000110 CHANGE LU
38000120 FETCH DEVICE MNEMONICS
38000140 FETCH DIR. ENTRY
38000180 RETRIEVE ATTRIBUTES
38000204 DISPLAY SPOOLER QUEUE
38000208 CHANGE COPIES
38000210 PRINT FILE
38000220 CHANGE FORMS
38000240 CONTINUE SPOOLER JOB
38000280 CANCEL SPOOLER JOB
38008001 SET DEFAULT VOLUME

*
*-----

E

APPENDIX F
PASCAL RUNTIME CODES

If `xyzz` has the form `lyzz` or `2yzz`, then it is a Pascal runtime error code as described below. If it is a bus error or an address error, it may be possible to successfully execute a program by specifying a larger stack/heap.

An error code of the form `10zz` is one of the following:

- 1001 Case index out of range.
- 1002 Value out of range -- found via range checking.
- 1004 Integer division by zero.
- 1008 Bus error -- typically caused by invalid pointer value; can also be caused by stack/heap overflow.
- 1010 Stack/heap overflow.
- 1011 Address error -- typically caused by invalid pointer; can also be caused by stack/heap overflow.
- 1012 Memory allocation error during processing Z option.
- 1022 Read past EOF.
- 1028 Illegal filename.
- 1031 Integer expected -- when reading from a text file.
- 1032 Real expected -- when reading from a text file.
- 1033 Boolean expected -- when reading from a text file.
- 1040 Too many files in use or unrecognizable device ID.
- 1041 Option error in "reset" or "rewrite".
- 1042 Too many command line fields -- maximum of 16 files + I + 0 may be specified.
- 1043 File not open at input.
- 1044 File not open at output.
- 1051 Real number out of range -- when reading from a text file.
- 1052 Attempt to enable MC6809 floating point trap.

- 1053 Attempt to set MC6809 floating point exception.
- 1054 Attempt to set MC6809 floating point precision mode.
- 1062 Invalid base -- when reading integer from a text file.
- 1063 Invalid digit -- when reading based integer from a text file.
- 1070 Attempt to take NaN(0).
- 1099 Illegal TRAP #14 error code -- internal Pascal error.

NOTE

If the error is 1008, 1010, or 1011, it may be possible to execute the program successfully by running it with a larger stack/heap (specifying option Z).

If *xyzz* is of the form *2yzz*, it indicates the occurrence of a standard floating point exception where *y* is the invalid operation code and *zz* indicates which exception(s) occurred.

The value of *y* (hexadecimal) is:

- 0 No invalid operation error.
- 1 Square root of a negative number, infinity in projective mode, or an unnormalized number.
- 2 (+infinity) + (-infinity) in affine mode.
- 3 Tried to convert a not-a-number to a binary integer.
- 4 In division: 0/0, infinity/infinity, or unnormalized divisor and the dividend is not zero and is finite.
- 5 One of the input arguments was a trapping not-a-number.
- 6 Unordered condition tested by predicate other than equal or not equal.
- 7 Projective closure use of +/- infinity.
- 8 0 x infinity.
- 9 In "rem": first argument is infinite or second argument is zero or unnormalized.

- A Input operand for binary-to-decimal or decimal-to-binary conversion out of range.
- B Tried to move a single precision unnormalized number to a double precision destination.
- C Tried to return an unnormalized number to single or double precision (invalid result).

The floating point exceptions that have occurred since the last time they were cleared are indicated in zz as a sum of the following (hexadecimal):

- 1 Invalid operation (refer to code in y above)
- 2 Overflow
- 4 Underflow
- 8 Division by zero
- 10 Inexact result
- 20 Integer overflow -- on conversion from floating point to integer
- 40 Reserved exponent value seen as input operand

If zz indicates that an invalid operation occurred (its lowest order bit is on) but the value of y is zero, then there was probably an error in one of the transcendental functions. This error could be any of the following:

- a. Sine, cosine, or tangent of infinity or a not-a-number.
- b. Logarithm of a negative number, infinity, or a not-a-number.
- c. Arctangent of a not-a-number.
- d. Exponential of infinity or a not-a-number.

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F

APPENDIX G**LINKAGE EDITOR ERROR CODES**

Error messages generated by the linkage editor are of the form:

**** ERROR xxx - description**

where:

xxx is a three-digit error number.

description is a general description of the type of error.

Errors are divided into classes where each class has only one error message. The class of an error can be determined by the first digit of the 3-digit error number. Thus, whenever an error occurs, its particular error number is printed along with the general error message for its class. The various error classes and their specific errors are:

Class 1 - Illegal Command Line

The general message for errors of this class is:

**** ERROR lxx - Illegal command line**

This error indicates there is something wrong with the command line used to invoke the linkage editor. If an error of this class occurs, the linkage editor will not proceed but instead, control will be returned to the operating system. The specific errors of this type are:

- 133 No filename: While scanning the command line, a filename specification was expected but not found.
- 134 Illegal filename: This indicates a general syntax error was encountered while attempting to scan a filename specification.
- 135 Illegal device name: A syntax error was encountered while scanning the device name field of a filename specification.
- 136 Illegal volume name: A syntax error was encountered while scanning the volume name field of a filename specification.
- 137 No user number: While scanning a filename specification, a user number was expected but not found.
- 138 Illegal user number: A syntax error was encountered while scanning the user number in a filename specification.



- 139 Illegal catalog name: A syntax error was encountered while scanning the catalog name in a filename specification.
- 140 Illegal extension: A syntax error was encountered while scanning the extension in a filename specification.
- 141 Illegal key(s): A syntax error was encountered while scanning the key(s) in a filename specification.
- 142 Filename already specified: The same file was specified twice in the list of input files on the command line.
- 143 Illegal option specification: A syntax error was encountered while scanning the option field of the command line.
- 144 Option conflict: A conflict exists between two or more options specified on the command line. For example, two mutually exclusive options (e.g., O and R) may have been specified.
- 145 No output filename specified: No output filename was specified on the command line. When relocatable output is requested (via the R option), an output file must be specified on the command line.
- 147 Illegal option syntax for the W option: A syntax error was encountered while scanning the W option on the command line.
- 148 Option conflict: The bit width chosen for addressable memory conflicts with the type of output module chosen.

Class 2 - Illegal User Command Line

The general message for errors of this class is:

```
** ERROR 2xx - Illegal user command line
```

This error indicates that there is an error in a user command line specified to the linkage editor. When an error of this class occurs, the offending user command is ignored and the user is prompted for another command. The various errors of this class are:

- 200 Command line too long: The user command line specified is too long. The maximum length of a user command is 132 characters.
- 201 Illegal character: An illegal character was encountered while scanning the user command.
- 202 Illegal command verb: The user has specified an unknown command name.
- 203 Too many arguments: Too many arguments have been specified for the particular command.

- 204 Not enough arguments: Too few arguments were given for the particular command.
- No digits in number expected: While scanning the user command, a number was expected but was not found.
- Illegal number: While scanning a number, an illegal digit was found. For example, the digit "9" was found in an octal number.
- 208 Invalid section number: A section number specified was not between 0 and 255 inclusive.
- 209 Illegal section number range: The specification of a range of section numbers was not of the proper form. For example, the first section number must be less than or equal to the second section number.
- 210 Section number already specified: The same section number was specified twice in a **START** or **SEGMENT** command.
- 211 Section number already assigned to a segment: A section number specified in a **SEGMENT** command has already been assigned to a different segment.
- 212 Section not assigned to a segment: A section specified in a **START** command has not yet been assigned to a segment.
- 213 Not all sections assigned to same segment: All the section numbers specified in a **START** command have not been assigned to the same segment.
- 214 No name: While scanning a user command, a symbol, module, segment, or taskname was expected but was not found.
- 215 Illegal name: A syntax error was encountered while scanning a symbol, module, segment, or taskname. Symbol and module names must be from one to ten alphanumeric characters, with the first character being alpha; segment and tasknames must be from one to four alphanumeric characters, also with the first character being alpha.
- 216 Undefined symbol: A symbol specified in the user command has not been encountered as an **XDEF** in the relocatable object modules input so far.
- 217 Command not legal for absolute output: This command may not be used when creating a load module.
- 218 Command not legal for relocatable output: This command may not be specified when creating a relocatable object module.
- 219 All segments used: An attempt was made to create more than four segments via **SEGMENT** commands. There is a maximum of four segments.
- 220 Command not legal for S-record output: This command may not be used when creating an S-record module.

- 221 Segment does not exist: The segment specified in the command does not have any sections assigned to it and, therefore, does not exist yet.
- 222 No more **SEGMENT** commands allowed: No more **SEGMENT** commands may be specified at this point.
- 223 Illegal segment start address: The address given as the starting address of a segment is not legal. The last byte of the starting address of a segment must be \$00.
- 224 Illegal segment end address: The address given as the ending address of a segment is not legal. The last byte of the ending address of a segment must be \$FF.
- 225 Conflicting address space: The address space specified for a segment conflicts with the address space previously specified for another segment.
- 226 Illegal address: A syntax error was encountered while scanning an address in the command line.
- 227 Address out of legal range: The address in a **START**, **ENTRY**, or **COMLINE** command is not in the range of the segment referred to by the command.
- 228 Illegal attribute specification: A syntax error was encountered while scanning the attributes in a **SEGMENT** command.
- 231 Module name already specified: The same module name was specified twice for the same file in an **INPUT** command.
- 232 Illegal command line length: The length specified in a **COMLINE** command is not between 1 to 256, inclusive.
- 233 No filename: While scanning the command line, a filename specification was expected but not found.
- 234 Illegal filename: This indicates a general syntax error was encountered while attempting to scan a filename specification.
- 235 Illegal device name: A syntax error was encountered while scanning the device name field of a filename specification.
- 236 Illegal volume name: A syntax error was encountered while scanning the volume name field of a filename specification.
- 237 No user number: While scanning a filename specification, a user number was expected but not found.
- 238 Illegal user number: A syntax error was encountered while scanning the user number in a filename specification.
- 239 Illegal catalog name: A syntax error was encountered while scanning the catalog name in a filename specification.

- 240 Illegal extension: A syntax error was encountered while scanning the extension in a filename specification.
- 241 Illegal key(s): A syntax error was encountered while scanning the key(s) in a filename specification.
- 242 Filename already specified: The same filename was specified twice in the same **INPUT** command.
- 243 Symbol name already specified: The same symbol name was specified more than once in an **XDEF** command.
- 244 Illegal entry point or command line address: The address specified in a **COMLINE** or **ENTRY** command is not even -- it must be even.
- 245 Illegal version/revision number: The version or revision number in an **IDENT** command is not between 0 and 255, inclusive.
- 246 Description too long: The description in an **IDENT** command is too long. The maximum length for a description is 80 characters.
- 247 Symbol already exists: The symbol specified in a **DEFINE** command already exists in the external symbol definition table. Symbols may not be redefined with this command.
- 248 Illegal option or attribute: An illegal (undefined) directive option or task attribute was specified in an **OPTIONS** or **ATTRIBUTES** command, respectively.
- 249 Illegal priority: A priority specified in a **PRIORITIES** command is not a number between 0 and 255, inclusive.
- 250 Illegal session number: An ASCII-encoded session number (one preceded by a single quote) in a **TASK** or **MONITOR** command is not a number between \$0 and \$FFFF, inclusive.
- 251 Buffer length error: A user command line was entered that exceeded 132 characters in length.
- 252 Buffer overflow: A user command line was entered employing argument substitution expanded to greater than 132 characters after substitution of arguments.
- 253 Argument not found: Argument substitution was attempted for an argument that has not been defined.



Class 3 - Errors in Processing a Relocatable Object File

The general message for errors of this class is:

```
** ERROR 3xx - Processing relocatable object file - File: ffffffff>
```

An error in this class indicates that an error was encountered while processing the relocatable object file named "fffffff". This indicates that the file being processed was not a relocatable object file to begin with or it was a relocatable object file that has been damaged in some way. Either way, the linkage editor cannot proceed, so all class 3 errors are considered fatal and cause an immediate halt to further processing. The various errors of this class are:

- 301 Module(s) not found: A module or modules explicitly requested in an INPUT command cannot be found in the specified file.
- 302 Module already processed: An attempt has been made to process a module with the same name as one that has already been processed from this file.
- 303 Premature end of file: The EOF in an object module has been encountered before it should have been.
- 306 Illegal relocatable record type: The record type of a relocatable record is not from 1 to 4, inclusive.
- 307 Error extracting name from ID record: An error was encountered while trying to extract the module name from an ID record.
- 308 Illegal language type in ID record: An illegal language type was found in the ID record of a module.
- 309 No ESD (external symbol definition) records: A relocatable object module does not contain any ESD records.
- 310 Illegal ESD type: The type of an ESD is not between 0 to 10, inclusive.
- 311 Error extracting name from ESD: An error was encountered while attempting to extract the name of a symbol or common area from an ESD.
- 312 Illegal address in ESD: An illegal address was encountered while processing an ESD.
- 313 Illegal length in ESD: An illegal length was encountered while processing an ESD.
- 314 ESD record too short: An ESD record is not long enough to contain all the information it should contain.
- 315 Error extracting address/length in general: A general error was encountered while attempting to extract an address or length from any type of record.

- 316 Illegal end record: The end record of a module is not of a legal form.
- 317 Illegal section number in end record: The section number specified in an end record is either not between 0 to 17, inclusive, or the section does not exist.
- 318 No end of module record: No end record was found at the end of a relocatable object module.
- 319 Section type conflict: The type of a section is not the same between different relocatable object modules.
- 320 Section length overflow: A section has become too long. The maximum length of a section is \$1000000 bytes.
- 321 Symbol ESD after non-symbol ESD: A symbol ESD was found after a non-symbol ESD in a module. In every module, all symbol ESDs must appear before the first non-symbol ESD.

Class 4 - Memory Allocation Errors

The general message for this class of errors is:

**** ERROR 4xx - Memory allocation conflict**

This message indicates that allocation of memory is impossible given the specified input files, sections, segments, etc. An error of this class is fatal and causes an immediate halt to further processing. The various types of this class are:

- 400 Memory conflict: A conflict has occurred that prohibits the allocation of a relocatable section.
- 401 Out of memory: All memory has been allocated but there are still relocatable sections that need allocating.
- 402 Cannot place absolute section: A conflict has occurred that prohibits the placing of an absolute section where it is required to reside.
- 403 Section too long: After adding in the lengths of its associated common sections, a section has become larger than the maximum \$1000000 bytes.
- 404 Output file too large: The resulting load module file would be too large to fit in currently available disk space.
- 405 Maximum address exceeded: Allocating a relocatable section would require logical addresses past the maximum of allowable address (\$FFFFFF or \$FFFFFFF, depending on W=24 or W=28).

Class 5 - Pass Two Fatal Errors

The general message for errors of this class is:

**** ERROR 5xx - Pass two fatal error - File: ffffffff**

This error indicates that an error has occurred during pass two processing of the file named "fffffff" that prohibits further processing to take place. This would indicate that the relocatable object modules in the file that are needed for input have changed since pass one or there is an error in a relocatable object module that was not detected during pass one, such as a bad data record. If an error of this class occurs, all processing is stopped. The various types of this error are:

- 500 ESD index overflow: A relocatable object module being input requires more than 255 ESD indices. One ESD index is required for each relocatable section, absolute section, common section, and external symbol reference.
- 501 Error calculating entry point address: An error has occurred while attempting to calculate the beginning execution address of the resulting load module.
- 502 Error calculating command line address: An error has occurred while attempting to calculate the address of where to store the invoking command line.
- 503 Illegal common name: The name of a non-existent common section was encountered in a relocatable object module.
- 504 Illegal section number: The number of a non-existent section was encountered in a relocatable object module.
- 505 Illegal symbol name: The name of a non-existent symbol was encountered in a relocatable object module.
- 506 Illegal command line ESD: An error was encountered in processing a command line ESD.
- 507 Data record too short: A data record does not contain as much data as it should.
- 508 Data record too long: A data record contains too much data.
- 509 Illegal data record ESDID: The External Symbol Definition Index (ESDID) in a data record that indicates where the data from that record is to go refers to a non-existent ESDID for that module.
- 511 Illegal ESDID within relocation data: An ESDID within relocation data refers to a non-existent ESDID for that module.
- 512 Illegal offset size: The flag of a set of relocation data indicates that the size of the offset is not between 0 to 4 bytes, inclusive.

- 513 Module not found: A module processed in pass one was not found in pass two.
- 514 Absolute section not found: During pass two, an ESD was encountered for an absolute section for which no ESD was encountered in pass one.
- 515 ESD index overflow: This error occurs during pass two when creating a relocatable object module if the module requires more than 255 ESD indices. One index is required for each relocatable section, absolute section, common section, and external symbol reference.

Class 6 - Individual Error Messages

There is no general error message for this class but instead each type of error has its own individual message. All the class 6 errors are fatal errors and thus stop further processing. The individual messages are:

** ERROR 600 - Unresolved references

This error occurs at the end of pass one and indicates that unresolved external references still exist, which makes further processing impossible. The error message is preceded by a list of the still unresolved references.

** ERROR 601 - No input files specified

This error, at the end of pass one, indicates that the user did not designate any input files on the invoking command line or in any user commands. Because of this, the linkage editor has nothing to process and must therefore abort.

** ERROR 602 - Fatal input error

This error indicates that a fatal I/O error has occurred during input.

** ERROR 603 - Fatal output error

This error indicates that a fatal I/O error has occurred during output.

Class 8 - Internal Errors

The general message for errors of this class is:

** ERROR 8xx - Internal error

A message of this type indicates that an error has occurred internal to the linkage editor.

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APPENDIX H**LINKAGE EDITOR WARNING CODES**

Warning messages are used to indicate non-fatal errors that are recoverable. Thus, whenever one of these types of errors occurs, a warning message is generated and processing continues normally. Warning messages are of the general form:

**** WARNING 7xx - description**

where:

7xx is a three-digit warning number that begins with 7.

description is a description of the error that occurred.

The various warning messages and their meanings are:

**** WARNING 700 - Undefined symbol: <symbol name>**

This warning indicates that the symbol "<symbol name>" that was specified in an XDEF command is not in the current table of XDEFed symbols. In other words, it has not appeared as an XDEF in any of the relocatable object modules processed so far. The processing of the XDEF command will proceed as if the offending symbol "<symbol name>" were not in the command.

**** WARNING 701 - Multiply defined symbol: <symbol name>**

This warning indicates that the symbol "<symbol name>" is multiply defined. This means that the symbol was XDEFed in more than one relocatable object module (defined in more than one place). The action taken will be to use only the first occurrence of "<symbol name>" as its defining occurrence and to ignore all later definitions.

**** WARNING 702 - No END command, assumed**

This warning indicates that when accepting user commands from a file, the EOF was found before an END command was encountered. The action taken will simply be to manufacture a fake END command and proceed.

**** WARNING 703 - Section not assigned, section not loaded: nn**

This warning indicates that during the processing of a relocatable object module in pass one, a section definition was found for section number "nn" which had not been assigned to a segment. The section definition is ignored and processing continues.



**** WARNING 704 - Conflicting XREF's: <symbol name>**

This message indicates that two XREFs to the same symbol "<symbol name>" conflict in that they require that the symbol be defined in different sections. The action taken will be to allow the symbol "<symbol name>" to be defined in any section and continue processing.

**** WARNING 705 - Relocated data too large, value truncated: at \$<address>**

This message indicates that while processing relocation data for data to be put at hex address "<address>", the resulting value was too large to fit into the number of words set aside. The action taken will be to truncate enough from the high order so that the result will fit.

**** WARNING 706 - Section not assigned, symbol not loaded: <symbol name>**

This message indicates that during the processing of a relocatable object module in pass one, an XDEF was encountered for the symbol "<symbol name>". However, the section the symbol was defined in had not been assigned to a segment. The XDEF will be ignored and processing will continue.

**** WARNING 707 - Module appears more than once: <module name> in <filename>**

This message indicates that during the processing of the file named "<filename>" in pass two, more than one module was encountered with the same name, "<module name>". The first module encountered is the one that will be processed. All later modules with the same name will be ignored.

This could occur if a library file contained two modules with the same name and a search of the file during pass one indicated that the second module was needed. However, in pass two the first module with the desired name will be processed, and when the second module with the same name is encountered, this warning message will be generated. This could be serious because the data in the first module will be processed in pass two according to the information acquired from the second module during pass one. Every module in a file should have a unique name.

**** WARNING 709 - Unable to include in debug file <filename>**

This message indicates that the linker attempted to append an .RS file to its .DB file, which it could not find.

APPENDIX I

TASK MANAGEMENT DIRECTIVE CODES

<u>yy</u>	<u>DIRECTIVE</u>
01	Allocate segment
02	Deallocate a segment
03	Transfer a segment
04	Attach shareable segment
05	Grant shared segment access
06	Move logical to logical
07	Declare segment shareable
08	Get snapshot of System Trace Table (TRC)
09	Receive segment attributes
0A	Get target task's ID
0B	Create a Task Control Block (TCB)
0C	Get target task's name and session number
0D	Start task
0E	Abort task (self)
0F	Terminate task (self)
10	Terminate task (not self)
11	Suspend execution
12	Resume suspended task
13	Wait for wakeup
14	Wakeup a waiting task
15	Delay some number of milliseconds
16	Relinquish control
17	Return task attributes
18	Set current priority
19	Stop task
1A	Announce exception vectors
1B	Announce trap vectors
1C	Return task information
1D	Request periodic activation
1E	Perform delay, wait-for-event, and wait functions
1F	Allocate an Asynchronous Service Queue (ASQ)
20	Deallocate ASQ
21	Set ASQ status
22	Read event from ASQ
23	Put event in someone else's queue
24	Wait for event
25	Return from event
26	Get an event
29	Attach to semaphore
2A	Wait on semaphore
2B	Signal semaphore
2C	Detach semaphore
2D	Create semaphore
2E	Detach all semaphores
33	Establish self as trap server
34	Detach server function

35 Set server request status
36 Acknowledge service request
3A Configure new directive
3C Channel management request
3D Configure Interrupt Service Routine (ISR)
3E Simulate interrupt

yy DIRECTIVE

40 Attach to exception monitor
41 Detach from exception monitor
42 Set exception monitor mask
43 Receive task state
44 Put task state
45 Execute task under exception monitor
48 Move from physical to logical address
49 Set date and time
4A Get date and time
4B Flush user cache

REASON FOR DIRECTIVE FAILURE

01 Directive number in D0 is not assigned
02 Parameter block address not in user's address space
03 Target task does not exist
04 Required table does not exist
05 Table is full - no room for new entry
06 Duplicate request - function cannot be performed twice
07 Entry not found in table or list
08 Memory space not available
09 Caller does not have permission to complete function
0A State of target task not valid for this directive
0B Request conflicts with existing table entries
0C Address of some parameter not in user's address space
0D Address of some parameter not in user's address space
0E Function is not enabled
0F Invalid options specified in parameter block
10 Invalid count or length field in parameter block

* Sometimes, the directive failure is described more specifically in the directive description in the M68000 Family Real-Time Multitasking Software User's Manual.

APPENDIX J
ASSEMBLY ERROR CODES

Error messages generated during an assembly may originate from the assembler or from Pascal or the operating system environment. Assembler-generated messages may be of two forms:

- a. ******* ERROR xxx -- nnnn**

where:

xxx is the number of the error (defined in the list in this appendix).

nnnn is the number of the line where the previous error occurred.

Errors indicate that the assembler is unable to interpret or implement the intent of a source line.

- b. ******* ERROR xxx -- nnnn**

where:

xxx is the number of the error (defined in the list in this appendix).

nnnn is the number of the line where the previous error occurred.

Warnings may indicate possible recoverable errors in the source code, or that a more optimal instruction format is possible.

ERROR CODE

MEANING OF ERROR

SYNTACTIC ERRORS

200	Illegal character (in context).
201	Size code/extension is invalid.
202	Syntax error.
203	Size code/extension not allowed.
204	Label required.
205	End directive missing.
206	Register ranges must be specified in increasing order (e.g., A1-A3, D0-D7, FP2-FP6).
207	A and D registers can't be intermixed in a MOVEM register range.
208	In the register pair Di:Dj, Di must be distinct from Dj.

ERROR CODEMEANING OF ERROROPERAND/ADDRESS MODE ERRORS

210	Missing operand(s).
211	Too many operands for this instruction.
212	Improper termination of operand field.
213	Illegal address mode for this operand.
214	Illegal forward reference.
215	Symbol/expression must be absolute.
216	Immediate source operand required.
217	Illegal register for this instruction.
218	Illegal operation on a relative symbol.
219	Memory shifts may only be single bit.
220	Invalid shift count.
221	Invalid section number.
222	"{o:w}" or "{k}" expression not allowed here.
223	Too many registers found in an M68020 addressing mode form.
224	Too many expressions found in an M68020 addressing mode form.
225	More than one pair of []s found in an M68020 addressing mode form.
226	"{o:w}" expression expected in this instruction.

SYMBOL DEFINITION

230	Attempt to redefine a reserved symbol.
231	Attempt to redefine a macro; new definition ignored.
232	Attempt to redefine the command line location.
233	Command line length must be > 0; ignored.
234	Redefined symbol.
235	Undefined symbol.
236	Phasing error on pass 2.
237	Start address must be in this module, if specified.
238	Undefined operation (opcode).
239	Named common symbol may not be XDEF.

DATA SIZE RESTRICTIONS

250	Displacement size error.
251	Value too large.
252	Address too large for forced absolute short.
253	Byte mode not allowed for this opcode.
254	Multiplication overflow.
255	Division by zero.
256	Value out of range.
257	Branch to odd address detected.

ERROR CODEMEANING OF ERRORMACRO ERRORS

260	Misplaced MACRO, MEXIT, or ENDM directive.
261	Macro definitions may not be nested.
262	Illegal parameter designation.
263	A period may occur only as the first character in a macro name.
264	Missing parameter reference.
265	Too many parameters in this macro call.
266	Reference precedes macro definition.
267	Overflow of input buffer during macro text expansion.

CONDITIONAL ASSEMBLY ERRORS

270	Unexpected ENDC.
271	Bad ending to conditional assembly structure (ENDC expected).

STRUCTURED SYNTAX ERRORS

280	Misplaced structured control directive (ignored).
281	Missing ENDI.
282	Missing ENDF.
283	Missing ENDW.
284	Missing UNTIL.
285	Unresolved syntax error in the preceding parameterized structured control directive; recovery attempted with the current line.
286	"=" expected; characters up to "=" ignored.
287	"<" expected; characters up to "<" ignored.
288	">" expected; characters up to ">" ignored.
289	DO expected; remainder of line ignored.
290	THEN expected; remainder of line ignored.
291	TO or DOWNT0 expected; T0 assumed.
292	Illegal condition code specified.

MISCELLANEOUS

300	Implementation restriction.
301	Too many relocatable symbols referenced. (linkage editor restricted)
302	Relocation of byte field attempted.
303	Absolute section of length zero defined (link error).
304	Nested INCLUDE files not allowed; ignored.
305	Filename required in operand field.

<u>ERROR CODE</u>	<u>MEANING OF ERROR</u>
310	Illegal syntax for P-nnnnn option -- option ignored.
311	Illegal processor number for P-nnnnn option -- option ignored.
312	Processor option does not agree with command line option -- option ignored.
313	This directive is not valid for the processor that is currently specified.
314	An OFFSET block must be followed by an ORG or SECTION before more code is generated.

FLOATING POINT ERRORS

330	Type (size) incompatibility exists between an operand and the opcode size.
331	Exponent string is too long. Will be truncated on the right; that will almost certainly return the wrong value.
332	A non-decimal character was found in the decimal string. The character will be ignored and the conversion will continue although the results should be highly suspect.
333	The input decimal string is too big to be represented in the specified size. Infinity or the largest positive or negative number will be returned, depending on the sign and current rounding mode.
334	The input decimal string is too small to be represented in the specified size. It was demoralized or reduced to zero.

INTERNAL ERRORS

400
.
.
.
499

ERROR CODEMEANING OF ERRORSOURCE CODE NOT OPTIMAL OR RECOVERABLE ERRORS

500	This byte will be sign-extended to 32 bits.
501	Missing parameter reference in macro source.
502	Too many parameters in this macro call.
503	Warning -- processor type should not be changed after any executable code is generated.
504	Warning -- processor type should not be changed after the user once sets it.
550	This branch could be short.
551	This absolute address could be short.
552	This expression/displacement could be represented.
553	Warning -- This instruction may cause a branch to an odd address.

FLOATING POINT WARNINGS

700	Mantissa string is too long. It will be truncated after 17 digits.
701	Decimal strings can be guaranteed accurate only to double precision, in the worst case. In the best case, they are accurate to extended precision.
702	The decimal string to FP conversion was inexact (some rounding error occurred).
703	Use of the L, D, X, and P extensions in the FSGLDIV and FSGLMUL instructions may result in a loss of accuracy.

NOTE

If more than 10 errors occur in one line, the message:

***** too many errors on this line

will be generated.

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