

Error Codes

This section lists OS-9 error codes in numerical order. They are categorized as follows:

| Range: | Description: |
|-------------------|--|
| 000:001 - 000:067 | Miscellaneous errors. |
| 000:102 - 000:163 | Processor Exception errors. Error codes in this range are reserved to indicate that a processor related exception occurred on behalf of the program. Only those listed within this range can occur on behalf of the user program. All other numbers between 100 - 163 are reserved. Unless the program provides for special handling of the exception condition (F\$STrap), the error is fatal and the program terminates. The listed errors that fall between 100-163 represent the hardware exception vector plus 100. |
| 000:164 - 000:176 | Miscellaneous errors. |
| 000:200 - 000:239 | Operating system errors. These errors are normally generated by the kernel or file managers. |
| 000:240 - 000:255 | I/O errors. These error codes are generated by device drivers or file managers. |

| ERROR NUMBER | DESCRIPTION |
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| 000:001 | Process has aborted. |
| 000:002 | KEYBOARD QUIT - The keyboard abort signal (S\$Abort) was sent. This is usually generated by typing control E. |
| 000:003 | KEYBOARD INTERRUPT - The keyboard interrupt signal (S\$Intrpt) was sent. This is usually generated by typing control C. |
| 000:004 | MODEM HANGUP - The modem hangup signal (S\$HangUp) was sent. This is usually generated when the device driver detects loss of data carrier. |
| 000:064 | E\$IIIFnc ILLEGAL FUNCTION CODE - A math trap handler error. |
| 000:065 | E\$FfmtErr FORMAT ERROR - A math trap handler error. |
| 000:066 | E\$NotNum NUMBER NOT FOUND - A math trap handler error. |
| 000:067 | E\$IIArg ILLEGAL ARGUMENT - A math trap handler error. |
| 000:102 | E\$BusErr BUS ERROR - A bus error exception occurred. |
| 000:103 | E\$AdrErr ADDRESS ERROR - An address error exception occurred. |
| 000:104 | E\$IIIns ILLEGAL INSTRUCTION - An illegal instruction exception occurred. |
| 000:105 | E\$ZerDiv ZERO DIVIDE - An integer zero divide exception occurred. |
| 000:106 | E\$Chk CHECK - A CHK or CHK2 instruction exception occurred. |
| 000:107 | E\$TrapV TRAP - A TRAPV, TRAPcc, or FTRAPcc instruction exception occurred. |
| 000:108 | E\$Violat PRIVILEGE VIOLATION - A privilege violation exception occurred. |
| 000:109 | E\$Trace UNINITIALIZED TRACE EXCEPTION - An uninitialized trace exception occurred. |
| 000:110 | E\$1010 1010 TRAP - An A Line emulator exception occurred. |
| 000:111 | E\$1111 1111 TRAP - An F Line emulator exception occurred. |
| 000:113 | COPROCESSOR PROTOCOL VIOLATION |

| ERROR NUMBER | DESCRIPTION |
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| 000:114 | FORMAT ERROR |
| 000:115 | UNINITIALIZED INTERRUPT OCCURRED |
| 000:124 | SPURIOUS INTERRUPT OCCURRED |
| 000:133-000:147 E\$Trap | Uninitialized user TRAP 1-15 executed. |
| 000:148 E\$FPUnordC | FPCP ERROR - Branch or set on unordered condition error. |
| 000:149 E\$FPInxact | FPCP ERROR - Inexact result. |
| 000:150 E\$FPDivZer | FPCP ERROR - Divide by zero error. |
| 000:151 E\$FPUndrFl | FPCP ERROR - Underflow error. |
| 000:152 E\$FPOprErr | FPCP ERROR - Operand error. |
| 000:153 E\$FPOverFl | FPCP ERROR - Overflow error. |
| 000:154 E\$FPNotNum | FPCP ERROR - NAN signaled. |
| 000:155 | FPCP ERROR - Unimplemented Data Type |
| 000:156 | PMMU CONFIGURATION ERROR |
| 000:157 | PMMU ILLEGAL OPERATION |
| 000:158 | PMMU ACCESS LEVEL VIOLATION |
| 000:164 E\$Permit | NO PERMISSION - The process or module must be owned by the super-user to perform the requested function. |
| 000:165 E\$Differ | DIFFERENT ARGUMENTS - F\$ChkNam arguments do not match. |
| 000:166 E\$StkOvf | STACK OVERFLOW - F\$ChkNam can cause this error if the pattern string is too complex. |
| 000:167 E\$EvtID | ILLEGAL EVENT ID - An invalid or illegal event ID number is specified. |
| 000:168 E\$EvNF | EVENT NAME NOT FOUND - An attempt to link to or delete an event is made, but the name is not found in the event table. |

| ERROR NUMBER | | DESCRIPTION |
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| 000:169 | E\$EvBusy | EVENT BUSY - An attempt to delete an event is made and its link count is non-zero. This can also occur if an attempt to create an already existent named event is made. |
| 000:170 | E\$EvParm | IMPOSSIBLE EVENT PARAMETER - This error returns when impossible parameters are passed to F\$Event. |
| 000:171 | E\$Damage | SYSTEM DAMAGE - A system data structure has been corrupted. |
| 000:172 | E\$BadRev | INCOMPATIBLE REVISION - The software revision is incompatible with the operating system revision. |
| 000:173 | E\$PthLost | PATH LOST - The path became lost. This usually occurs when: <ul style="list-style-type: none">• A network node has gone down• A serial connection has lost data carrier• A pipe path has been broken due to an SS_Break SetStat |
| 000:174 | E\$BadPart | BAD PARTITION - Bad partition data or no active partition. |
| 000:175 | E\$Hardware | HARDWARE DAMAGE HAS BEEN DETECTED - E\$Hardware usually occurs when the driver fails to detect the correct responses from the hardware. This can occur due to hardware failure or an incorrect hardware configuration. |
| 000:176 | E\$SectSize | INVALID SECTOR SIZE - The sector size of a RBF device must be a binary multiple of 256 (256, 512, 1024, etc.). The maximum sector size is 32768. |
| 000:200 | E\$BPNum | PATH TABLE FULL - A user program has tried to open more than 32 I/O paths simultaneously. When the system path table gets full, the kernel automatically expands it. However, this error could be returned if there is not enough contiguous memory to expand the table. |
| 000:201 | E\$BPNum | ILLEGAL PATH NUMBER - The path number was too large, or for a non-existent path. This could occur whenever passing a path number to an I/O call. |

| ERROR NUMBER | DESCRIPTION |
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| 000:202 E\$Poll | INTERRUPT POLLING TABLE FULL - An attempt was made to install an IRQ Service Routine into the system polling table, and the table was full. To install another interrupt producing device, one must first be removed. The system's INIT module specifies the maximum number of IRQ devices that may be installed. |
| 000:203 E\$BMode | ILLEGAL MODE - An attempt was made to perform an I/O function of which the device or file was incapable. This could occur, for instance, when trying to read from an output file (for example, a printer). |
| 000:204 E\$DevOvf | DEVICE TABLE FULL - The specified device cannot be added to the system because the device table is full. To install another device, one must first be removed. The system's INIT module specifies the maximum number of devices that may be supported, but this may be changed to add more. |
| 000:205 E\$BMID | ILLEGAL MODULE HEADER - The specified module cannot be loaded because its module sync code is incorrect. |
| 000:206 E\$DirFul | MODULE DIRECTORY FULL - The specified module cannot be added to the system because the module directory is full. To load or create another module, one must first be unlinked. Although OS-9 expands the module directory when it becomes full, this error may be returned because there is not enough memory or the memory is too fragmented to use. |
| 000:207 E\$MemFul | MEMORY FULL - The process will not execute because there is not enough contiguous RAM free. This can also occur if a process has already been allocated the maximum number of blocks permitted by the system. |
| 000:208 E\$UnkSvc | ILLEGAL SERVICE REQUEST - The specified service call has an unknown or invalid service code number. This can also occur if a Getstat/Setstat call is made with an unknown status code. |
| 000:209 E\$ModBsy | MODULE BUSY - An attempt was made to access a non-sharable module that is in use by another process. |
| 000:210 E\$BPAddr | BOUNDARY ERROR - A memory deallocation request was not passed a valid block address or an attempt was made to deallocate memory not previously assigned. |
| ERROR NUMBER | DESCRIPTION |
| 000:211 E\$EOF | END OF FILE - An end of file condition was encountered on a read operation. |

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| 000:212 | E\$VctBsy | VECTOR BUSY - A device is trying to use an IRQ vector that is currently being used by another device. |
| 000:213 | E\$NES | NON-EXISTING SEGMENT - A search was made for a disk file segment that cannot be found. The device may have a damaged file structure. |
| 000:214 | E\$FNA | FILE NOT ACCESSIBLE - An attempt was made to open a file or device without the correct access permissions. Check the file's attributes and the owner ID. |
| 000:215 | E\$BPNam | BAD PATH NAME - There is a syntax error in the specified pathlist (illegal character, etc.). This can occur whenever referencing a path by name. |
| 000:216 | E\$PNNF | PATH NAME NOT FOUND - The specified pathlist cannot be found. This could be caused by misspellings or incorrect directories, etc. |
| 000:217 | E\$SLF | SEGMENT LIST FULL - A file is too fragmented to be expanded any further. This can be caused by expanding a file many times without regard to allocation of memory. It also occurs on disks with little free memory or disks whose free memory is too scattered. A simple way to solve this problem is to copy the file (or disk). This should move it into contiguous areas. |
| 000:218 | E\$CEF | FILE ALREADY EXISTS - An attempt was made to create a file using a name that already appears in the current directory. |
| 000:219 | E\$IBA | ILLEGAL BLOCK ADDRESS - A search for an illegal block address has occurred. An invalid pointer or block size has been passed or the device's file structure is damaged. |
| 000:220 | E\$HangUp | TELEPHONE (MODEM) DATA CARRIER LOST |
| 000:221 | E\$MNF | MODULE NOT FOUND - A request is made to link to a module that is not found in the module directory. Modules whose headers have been modified or corrupted will not be found. |

| ERROR NUMBER | | DESCRIPTION |
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| 000:222 | E\$NoClk | NO CLOCK - This error returns when a request is made that uses the system clock and the system has no clock running. For example, a timed SLEEP request returns this error if there is no system clock running. SETIME is used to start the system clock. |
| 000:223 | E\$DeISP | SUICIDE ATTEMPT - A user requested deallocation and return of the memory where the user's stack is located. This could be caused, for example, by using the F\$Mem system call to contract the data memory of the specified process. |
| 000:224 | E\$IPrclD | ILLEGAL PROCESS NUMBER - A system call was passed a process ID to a non-existent process or a process that the user may not access. |
| 000:225 | E\$Param | BAD PARAMETER - A service request has been passed an illegal or impossible parameter. |
| 000:226 | E\$NoChld | NO CHILDREN - An F\$Wait request was made and the process has no child process for which to wait. |
| 000:227 | E\$ITrap | ILLEGAL TRAP CODE - An unavailable (already in use) or invalid trap code is used in a TLINK call. |
| 000:228 | E\$PrcAbt | PROCESS ABORTED - A process is aborted by the kill signal code. |
| 000:229 | E\$PrcFul | PROCESS TABLE FULL - The system process table is full (too many processes currently running). Although OS-9 automatically tries to expand the table, this error may occur if there is not enough contiguous memory to do so. |
| 000:230 | E\$IForkP | ILLEGAL PARAMETER AREA - Ridiculous parameters were passed to a fork call. |
| 000:231 | E\$KwnMod | KNOWN MODULE - A call was made to install a module that is already in memory. |
| 000:232 | E\$BMCRC | INCORRECT MODULE CRC - The specified module being checked or verified has a bad CRC value. To generate a valid CRC, use the FIXMOD utility. |
| 000:233 | E\$USigP | UNPROCESSED SIGNAL PENDING |

| ERROR NUMBER | DESCRIPTION |
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| 000:234 E\$NEMod | NON-EXECUTABLE MODULE - A process tries to execute a module with a type other than program/object. |
| 000:235 E\$BNam | BAD NAME - There is a syntax error in the specified name. |
| 000:236 E\$BMHP | BAD PARITY - The specified module has bad module header parity. |
| 000:237 E\$NoRAM | RAM FULL - There is no free system RAM available at the time of the request for memory allocation. This also occurs when there is not enough contiguous memory to process a fork request. |
| 000:238 E\$DNE | DIRECTORY NOT EMPTY - An attempt was made to remove the directory attribute from a directory that is not empty. |
| 000:239 E\$NoTask | NO TASK NUMBER AVAILABLE - All task numbers are currently in use and a request was made for execution or creation of a new task. |
| 000:240 E\$Unit | ILLEGAL DRIVE NUMBER |
| 000:241 E\$Sect | BAD SECTOR - Bad disk sector number. |
| 000:242 E\$WP | WRITE PROTECT - Device is write protected. |
| 000:243 E\$CRC | CRC ERROR - CRC error on read or write verify. |
| 000:244 E\$Read | READ ERROR - Data transfer error during disk read operation, or SCF (terminal) input buffer overrun. |
| 000:245 E\$Write | WRITE ERROR - Hardware error during disk write operation. |
| 000:246 E\$NotRdy | NOT READY - Device has “not ready” status. |
| 000:247 E\$Seek | SEEK ERROR - Physical seek to non-existent sector. |
| 000:248 E\$Full | MEDIA FULL - Insufficient free space on media. |
| 000:249 E\$BTyp | WRONG TYPE - Attempt to read incompatible media (that is, attempt to read double-side disk on single-side drive). |
| 000:250 E\$DevBsy | DEVICE BUSY - Non-sharable device is in use. |

| ERROR NUMBER | DESCRIPTION |
|-------------------|---|
| 000:251 E\$DIDC | DISK ID CHANGE - The disk media was changed with open files. RBF copies the disk ID number (from sector 0) into the path descriptor of each path when it is opened. If this does not agree with the driver's current disk ID, this error returns. The driver updates the current disk ID only when sector 0 is read. Therefore, it is possible to swap disks without RBF noticing. This check helps to prevent this possibility. |
| 000:252 E\$Lock | RECORD IS LOCKED-OUT - Another process is accessing the requested record. Normal record locking routines will wait forever for a record in use by another user to become available. However, RBF may be told to wait for a finite amount of time with a Setstat . If the time expires before the record becomes free, this error returns. |
| 000:253 E\$Share | NON-SHARABLE FILE BUSY - The requested file or device has the single user bit set or it was opened in single user mode and another process is accessing the requested file. A common way to get this error is to attempt to delete a file that is currently open. |
| 000:254 E\$DeadLk | I/O DEADLOCK - Two processes are attempting to use the same two disk areas simultaneously. Each process is locking out the other process, producing the I/O deadlock. One of the two processes must release its control to allow the other to proceed. |
| 000:255 E\$Format | DEVICE IS FORMAT PROTECTED - An attempt was made to format a disk that is format protected. A bit in the device descriptor may be changed to allow the device to be formatted. Formatting is usually inhibited on hard disks to prevent erasure. |

NOTES