

IEEE Standards Interpretations for IEEE Std 1003.1™-1990 IEEE Standard for Information Technology -- Portable Operating System Interface (POSIX®)

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Interpretation Request #1 (PDF)

Topic: rename() behavior **Relevant Clauses:** 5.5.3.3

Interpretation Request #3 (PDF)

Topic: EIO missing from tc* functions **Relevant Clauses:** 7.1.1.4

Interpretation Request #5 (PDF)

Topic: root directory **Relevant Clauses:** 2.2.2.74, 3.1.1.2, B.2.3.7

Interpretation Request #6 (PDF)

Topic: order of error numbers **Relevant Clauses:** 2.4, 3.1.2.4

Interpretation Request #7 (PDF)

Topic: ignoring errors **Relevant Clauses:** 6.4.1.2, 6.4.2.2, B.6.4

Interpretation Request #8 (PDF)

Topic: file time update **Relevant Clauses:** 2.3.5, 5.6.6.2

Interpretation Request #10 (PDF)

Topic: colon in filenames **Relevant Clauses:** 2.2.2.32, 2.2.2.56, 2.2.2.57, 2.6

Interpretation Request #11 (PDF)

Topic: pipe as a file & characteristics **Relevant Clauses:** 2.2.2.59, 2.2.2.27, 5.6.1

Interpretation Request #12 (PDF)

Topic: rename () impact on .. ctime **Relevant Clauses:** 5.5.3.2

Interpretation Request #13 (PDF)**Topic:** rmdir and . or .. **Relevant Clauses:** 5.1.2.2, 5.5.2.2**Interpretation Request #14 (PDF)****Topic:** format of directory entries, use of read/write **Relevant Clauses:** 5.1.1**Interpretation Request #16 (PDF)****Topic:** EISDIR **Relevant Clauses:** 5.3.1.4**Interpretation Request #18 (PDF)****Topic:** system documentation **Relevant Clauses:** 1.3.1.2**Interpretation Request #19 (PDF)****Topic:** static data - how volatile? **Relevant Clauses:** 4.2.4.3**Interpretation Request #23 (PDF)****Topic:** pass through of error conditions **Relevant Clauses:** 8.2.3.11**Interpretation Request #27 (PDF)****Topic:** _POSIX_VDISABLE symbol **Relevant Clauses:** 2.9.4**Interpretation Request #29 (PDF)****Topic:** SSIZE_MAX minimum values **Relevant Clauses:** 2.8.6**Interpretation Request #30 (PDF)****Topic:** Max # of directory levels **Relevant Clauses:** 2.3.6**Interpretation Request #32 (PDF)****Topic:** solidus-es replace with comma **Relevant Clauses:** 8.1.1, Annex E**Interpretation Request #34 (PDF)****Topic:** portable use of POSIX constants **Relevant Clauses:** 2.9.4**Interpretation Request #35 (PDF)****Topic:** PATH_MAX **Relevant Clauses:** 2.4**Interpretation Request #36 (PDF)****Topic:** ENAMETOOLONG **Relevant Clauses:** 5.3.1.4**Interpretation Request #37 (PDF)****Topic:** off_t error messages **Relevant Clauses:** not specified**Interpretation Request #38 (PDF)****Topic:** errors and fstat with file off_t **Relevant Clauses:** 5.3.1.4

Interpretation Request #39 (PDF)**Topic:** F_SETLKW and seek() **Relevant Clauses:** not specified**Interpretation Request #40 (PDF)****Topic:** streams & file descriptors & impl defined **Relevant Clauses:** 8.2.3**Interpretation Request #41 (PDF)****Topic:** streams & file descriptors & impl defined **Relevant Clauses:** 8.1.1**Interpretation Request #43 (PDF)****Topic:** creat() "as if" l.193-198 **Relevant Clauses:** 8.2**Interpretation Request #44 (PDF)****Topic:** creat() - share certain traits l 341-344 **Relevant Clauses:** 8.2.3**Interpretation Request #45 (PDF)****Topic:** creat() - implementation restrictions **Relevant Clauses:** 8.2.3**Interpretation Request #47 (PDF)****Topic:** CHILD_MAX system limit **Relevant Clauses:** 2.8.4**Interpretation Request #48 (PDF)****Topic:** last close() on terminal **Relevant Clauses:** 7.1.1.11**Interpretation Request #49 (PDF)****Topic:** Extended tar format **Relevant Clauses:** 10.1.1**Interpretation Request #50 (PDF)****Topic:** fcntl() locking **Relevant Clauses:** 6.5.2.2**Interpretation Request #51 (PDF)****Topic:** cfsetospeed() **Relevant Clauses:** 7**Interpretation Request #52 (PDF)****Topic:** timestamps on read-only filesystems **Relevant Clauses:** 2.2.2.69, 2.3.5**Interpretation Request #54 (PDF)****Topic:** extern int errno **Relevant Clauses:** 2.4**Interpretation Request #56 (PDF)****Topic:** asynchronous terminals layered **Relevant Clauses:** 7.1**Interpretation Request #57 (PDF)****Topic:** ENAMETOOLONG **Relevant Clauses:** 2.4

Interpretation Request #58 (PDF)**Topic:** fseek and ESPIPE **Relevant Clauses:** 8.1**Interpretation Request #59 (PDF)****Topic:** unlink() vs remove() **Relevant Clauses:** 5.5**Interpretation Request #60 (PDF)****Topic:** real UID, effective UID and saved-set UID **Relevant Clauses:** 2.2.2.4, 5.6.4.2**Interpretation Request #61 (PDF)****Topic:** signals and preemption **Relevant Clauses:** 3.1.1.2**Interpretation Request #66 (PDF)****Topic:** inherited file descriptors **Relevant Clauses:** not specified**Interpretation Request #67 (PDF)****Topic:** tcflow() **Relevant Clauses:** 7.2.2.2**Interpretation Request #69 (PDF)****Topic:** file access control **Relevant Clauses:** 2.3.2, 5.6.3.2**Interpretation Request #70 (PDF)****Topic:** rmdir **Relevant Clauses:** 5.5.2.2**Interpretation Request #71 (PDF)****Topic:** fcntl **Relevant Clauses:** 6.5.2**Interpretation Request #72 (PDF)****Topic:** write and EFBIG **Relevant Clauses:** 6.4.2.4**Interpretation Request #73 (PDF)****Topic:** ERROR numbers and additional actions **Relevant Clauses:** 2.4**Interpretation Request #74 (PDF)****Topic:** tmpfile **Relevant Clauses:** 8.2.3.9**Interpretation Request #75 (PDF)****Topic:** off_t error messages and 1003.1/INT #37**Interpretation Request #76 (PDF)****Topic:** read() **Relevant Clauses:** 6.4.1.2**Interpretation Request #77 (PDF)****Topic:** rname **Relevant Clauses:** 5.5.3.2

Interpretation Request #78 (PDF)**Topic:** opendir() error return value **Relevant Clauses:** 5.1.2.4**Interpretation Request #79 (PDF)****Topic:** unlink **Relevant Clauses:** 5.5.1**Interpretation Request #80 (PDF)****Topic:** Referenced C Language Functions **Relevant Clauses:** 8.1**Interpretation Request #81 (PDF)****Topic:** tcsetattr **Relevant Clauses:** 7.2.1.2**Interpretation Request #82 (PDF)****Topic:** cfgetispeed and cfsetispeed **Relevant Clauses:** 7.1.3.2**Interpretation Request #83 (PDF)****Topic:** sysconf **Relevant Clauses:** 4.8.1.3**Interpretation Request #84 (PDF)****Topic:** time.h and namespace **Relevant Clauses:** 14.1, page 309 & subclause 14.2.2.1, P312 (timer_create())**Interpretation Request #85 (PDF)****Topic:** signal.h and namespace **Relevant Clauses:** 3.3.1, page 70, 3.3.8.1, page 80 (sigtimedwait())**Interpretation Request #86 (PDF)****Topic:** pthread.h and namespace **Relevant Clauses:** 11.3 and 11.4 in POSIX.1-1996, page 252-266**Interpretation Request #87 (PDF)****Topic:** struct sched_param and sched_setscheduler **Relevant Clauses:** 13.1, 13.3.3.1**Interpretation Request #88 (PDF)****Topic:** PTHREAD_KEYS_MAX **Relevant Clauses:** 2.8.5, 4.8.1.2**Interpretation Request #89 (PDF)****Topic:** timer_settime **Relevant Clauses:** Page 315, 14.2.4**Interpretation Request #90 (PDF)****Topic:** sem_getvalue() **Relevant Clauses:** Page 251, 11.2.8**Interpretation Request #91 (PDF)****Topic:** PTHREAD_CANCEL_* symbols required as macros? **Relevant Clauses:** Page 351, lines 158-159, 162-163, 18.2.2.2; plus others

Interpretation Request #92 (PDF)**Topic:** Seconds since the epoch **Relevant Clauses:** Page 25, lines 497-498, 2.2.2.113**Interpretation Request #93 (PDF)****Topic:** ICANON **Relevant Clauses:** 7.1.1.9, lines 246-250**Interpretation Request #100 (PDF)****Topic:** thread holding a mutex **Relevant Clauses:** Page 306, line 713**Interpretation Request #102 (PDF)****Topic:** posix_madvise **Relevant Clauses:** 2.7.3**Interpretation Request #103 (PDF)****Topic:** posix_spawn **Relevant Clauses:** 3.1.6**Interpretation Request #104 (PDF)****Topic:** EBADF **Relevant Clauses:** 3.1.4.4**Interpretation Request #105 (PDF)****Topic:** posix_spawn_file_actions_addopen **Relevant Clauses:** 3.1.4.2**Interpretation Request #106 (PDF)****Topic:** preinitializing an initialized spawn attributes object. **Relevant Clauses:** 3.1.5.2**Interpretation Request #107 (PDF)****Topic:** pthread_attr_init **Relevant Clauses:** 16.2.1.2**Interpretation Request #108 (PDF)****Topic:** timespec type in sched_param **Relevant Clauses:** 13.1**Interpretation Request #109 (PDF)****Topic:** return type of mq_timedreceive() **Relevant Clauses:** 15.2.5.1, page 55, line 72 of Draft 14**Interpretation Request #110 (PDF)****Topic:** thread holding a mutex **Relevant Clauses:** 2.2.2.10, page 14, line 120**Interpretation Request #111 (PDF)****Topic:** signal concepts **Relevant Clauses:** Page 78 line 870, page 79, line 883**Interpretation Request #112 (PDF)****Topic:** lseek and the "gap" **Relevant Clauses:** 6.5.3.2, page 162, line 578**Interpretation Request #113 (PDF)****Topic:** scheduling **Relevant Clauses:** Page 306, line 713, page 290, line 141

Interpretation Request #114 (PDF)

Topic: granularity vs resolution **Relevant Clauses:** Page 310, line 63

Interpretation Request #115 (PDF)

Topic: mprotect v mmap **Relevant Clauses:** 12.2.3.2 , 12.2.1.2, page 272 line 220, page 278, line 416

Interpretation Request #116 (PDF)

Topic: buffer sizes in characters or bytes **Relevant Clauses:** Page 226, line 49, page 228, line 105

Interpretation Request #118 (PDF)

Topic: aio_fsync **Relevant Clauses:** 6.7.9.2, lines 1252-1265

Interpretation Request #119 (PDF)

Topic: sigtimedwait and EAGAIN **Relevant Clauses:** Page 90, 3.3.84, lines 1295-1296

Interpretation Request #121 (PDF)

Topic: posix_trace_trid_eventid_open() **Relevant Clauses:** 21.3.8.2

Interpretation Request #123 (PDF)

Topic: 1003.1q errors **Relevant Clauses:** 21.3.2.4

Interpretation Request #127 (PDF)

Topic: 1003.1q **Relevant Clauses:** Page 21, lines 1307 ... 1326

Interpretation Request #128 (PDF)

Topic: 1003.1q **Relevant Clauses:** Annex B line 678, 683

Interpretation Request #129 (PDF)

Topic: 1003.1q **Relevant Clauses:** 21.3.8.1, lines 1005-1010,1093

Interpretation Request #130 (PDF)

Topic: 1003.1q **Relevant Clauses:** 21.3.14

Interpretation Request #132 (PDF)

Topic: SIGCHLD **Relevant Clauses:** 1003.1:1996, page 59, lines 161-171