

Table 1-18 — Units of Functionality Requirements (Continued)

Unit of Functionality	PSE51	PSE52	PSE53	PSE54
XSI_C_LANG_SUPPORT ^b	–	–	–	–
XSI_DBM ^b	–	–	–	–
XSI_DEVICE_IO ^b	–	–	–	–
XSI_DEVICE_SPECIFIC ^b	–	–	–	–
XSI_DYNAMIC_LINKING ^b	–	–	–	X
XSI_FD_MGMT ^b	–	–	–	–
XSI_FILE_SYSTEM ^b	–	–	–	–
XSI_I18N ^b	–	–	–	–
XSI_IPC ^b	–	–	–	–
XSI_JOB_CONTROL ^b	–	–	–	–
XSI_JUMP ^b	–	–	–	–
XSI_MATH ^b	–	–	–	–
XSI_MULTI_PROCESS ^b	–	–	–	–
XSI_SIGNALS ^b	–	–	–	–
XSI_SINGLE_PROCESS ^b	–	–	–	–
XSI_SYSTEM_DATABASE ^b	–	–	–	–
XSI_SYSTEM_LOGGING ^b	–	–	–	X
XSI_THREAD_MUTEX_EXT ^b	X	X	X	X
XSI_THREADS_EXT ^b	X	X	X	X
XSI_TIMERS ^b	–	–	–	–
XSI_USER_GROUPS ^b	–	–	–	–
XSI_WIDE_CHAR ^b	–	–	–	–

(1) Required only for the Ada language option.

(2) Required only for the C language option.

Table 1-19 — POSIX.1 Option Requirements

Option	PSE51	PSE52	PSE53	PSE54
_POSIX_ADVISORY_INFO	–	–	–	X
_POSIX_ASYNCHRONOUS_IO	–	–	X	X
_POSIX_BARRIERS	–	–	–	–
_POSIX_CHOWN_RESTRICTED	–	–	–	X
_POSIX_CLOCK_SELECTION	X	X	X	X
_POSIX_CPUTIME	–	–	X	X
_POSIX_FSYNC	X	X	X	X
_POSIX_IPV6	–	–	–	–
_POSIX_MAPPED_FILES	–	X	X	X
_POSIX_MEMLOCK	X	X	X	X
_POSIX_MEMLOCK_RANGE	X	X	X	X

Copyright © 2004 IEEE. All rights reserved.

Table 1-19 — POSIX.1 Option Requirements (Continued)

Option	PSE51	PSE52	PSE53	PSE54
<u>_POSIX_MEMORY_PROTECTION</u>	–	–	X	X
<u>_POSIX_MESSAGE_PASSING</u>	–	X	X	X
<u>_POSIX_MONOTONIC_CLOCK</u>	X	X	X	X
<u>_POSIX_NO_TRUNC</u>	X	X	X	X
<u>_POSIX_PRIORITIZED_IO</u>	–	–	X	X
<u>_POSIX_PRIORITY_SCHEDULING</u>	–	–	X	X
<u>_POSIX_RAW_SOCKETS</u>	–	–	X	X
<u>_POSIX_REALTIME_SIGNALS</u>	X	X	X	X
<u>_POSIX_SAVED_IDS</u>	–	–	–	X
<u>_POSIX_SEMAPHORES</u>	X	X	X	X
<u>_POSIX_SHARED_MEMORY_OBJECTS</u>	X	X	X	X
<u>_POSIX_SPAWN</u>	–	–	X	X
<u>_POSIX_SPIN_LOCKS</u>	–	–	–	–
<u>_POSIX_SPORADIC_SERVER</u>	–	–	X	X
<u>_POSIX_SYNCHRONIZED_IO</u>	X	X	X	X
<u>_POSIX_THREAD_ATTR_STACKADDR</u>	X	X	X	X
<u>_POSIX_THREAD_ATTR_STACKSIZE</u>	X	X	X	X
<u>_POSIX_THREAD_CPU_TIME</u>	X	X	X	X
<u>_POSIX_THREAD_PRIO_INHERIT</u>	X	X	X	X
<u>_POSIX_THREAD_PRIO_PROTECT</u>	X	X	X	X
<u>_POSIX_THREAD_PRIORITY_SCHEDULING</u>	X	X	X	X
<u>_POSIX_THREAD_PROCESS_SHARED</u>	–	–	X	X
<u>_POSIX_THREAD_SAFE_FUNCTIONS</u>	See Units of Functionality			
<u>_POSIX_THREAD_SPORADIC_SERVER</u>	X	X	X	X
<u>_POSIX_THREADS</u>	See Units of Functionality			
<u>_POSIX_TIMEOUTS</u>	X	X	X	X
<u>_POSIX_TIMERS</u>	X	X	X	X
<u>_POSIX_TRACE</u>	–	X	X	X
<u>_POSIX_TRACE_EVENT_FILTER</u>	–	X	X	X
<u>_POSIX_TRACE_INHERIT</u>	–	–	–	–
<u>_POSIX_TRACE_LOG</u>	–	X	X	X
<u>_POSIX_TYPED_MEMORY_OBJECTS</u>	–	–	–	–
<u>_POSIX_VDISABLE</u>	–	–	–	X
<u>_POSIX2_C_DEV⁽¹⁾</u>	X ^b	X ^b	X ^b	X
<u>_POSIX2_CHAR_TERM</u>	–	–	–	X
<u>_POSIX2_FORT_DEV</u>	–	–	–	–
<u>_POSIX2_FORT_RUN</u>	–	–	–	X
<u>_POSIX2_LOCALEDEF</u>	–	–	–	–
<u>_POSIX2_PBS</u>	–	–	–	–
<u>_POSIX2_PBS_ACCOUNTING</u>	–	–	–	–
<u>_POSIX2_PBS_CHECKPOINT</u>	–	–	–	–

Copyright © 2004 IEEE. All rights reserved.

Table 1-19 — POSIX.1 Option Requirements (Continued)

Option	PSE51	PSE52	PSE53	PSE54
<code>_POSIX2_PBS_LOCATE</code>	–	–	–	–
<code>_POSIX2_PBS_MESSAGE</code>	–	–	–	–
<code>_POSIX2_PBS_TRACK</code>	–	–	–	–
<code>_POSIX2_SW_DEV</code>	X ⁽²⁾	X ^b	X ^b	X
<code>_POSIX2_UPE</code>	–	–	–	X
<code>_XOPEN_CRYPT</code>	–	–	–	–
<code>_XOPEN_ENH_I18N</code>	No interfaces fall under this option			
<code>_XOPEN_LEGACY</code>	–	–	–	–
<code>_XOPEN_REALTIME</code>	See individual suboptions			
<code>_XOPEN_REALTIME_THREADS</code>	See individual suboptions			
<code>_XOPEN_SHM</code>	No interfaces fall under this option			
<code>_XOPEN_STREAMS</code>	–	–	–	–
<code>_XOPEN_UNIX</code>	See Units of Functionality			

⁽¹⁾ Required only for the C language option.

⁽²⁾ Required only for the development platform, which will often differ from the execution platform.

Table 1-20 — Requirements for Other Standards

Standard	PSE51	PSE52	PSE53	PSE54
POSIX.26 {4}	X	X	X	X

The correspondence between the options listed in Table 1-19 and the options described in POSIX.5c {5}, Section 2.5, are shown in Table 1-21.

Table 1-21 — POSIX.1 Options vs. POSIX.5c Options

POSIX.1 Option	POSIX.5c Option
<code>_POSIX_ADVISORY_INFO</code>	none
<code>_POSIX_ASYNCHRONOUS_IO</code>	Asynchronous I/O
<code>_POSIX_BARRIERS</code>	none
<code>_POSIX_CHOWN_RESTRICTED</code>	Change Owner Restriction
<code>_POSIX_CLOCK_SELECTION</code>	none
<code>_POSIX_CPUTIME</code>	none
<code>_POSIX_FSYNC</code>	File Synchronization
<code>_POSIX_IPV6</code>	none
<code>_POSIX_MAPPED_FILES</code>	Memory Mapped Files
<code>_POSIX_MEMLOCK</code>	Memory Locking
<code>_POSIX_MEMLOCK_RANGE</code>	Memory Range Locking
<code>_POSIX_MEMORY_PROTECTION</code>	Memory Protection
<code>_POSIX_MESSAGE_PASSING</code>	Message Queues
<code>_POSIX_MONOTONIC_CLOCK</code>	none

Copyright © 2004 IEEE. All rights reserved.