

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

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Interpretation Request #100

Topic: thread holding a mutex Relevant Sections: P 306, Line 713 PASC

The text in this paragraph is apparently referring to the text at Page 290, line 141. However, the two paragraphs share no common terminology, and thus the meaning is at least partially lost.

Minimally, the two should share the same terminology. Better yet is to cross reference the concepts, rather than trying to describe it (in two different ways). Try this instead (change starts at the *): "While a thread is holding...protocol attributes *is not subject to the requirement that it resume execution after all other runnable processes at equal or greater priority have been scheduled to run as required by sched_setparam() and similar calls". (2 places). Also, at line 143, change to read: "except as specified under pthread_mutexattr_getprotocol()".

Interpretation Response

The standard is unclear on this issue, and no conformance distinction can be made between alternative implementations based on this. This is being referred to the sponsor.

Rationale for Interpretation

None.

Notes to Project Editor (not part of this interpretation)

Suggest change lines 141-143 on page 290 to use "tail" terminology. : The target process, whether it is running or not running, shall be moved to the tail of the thread list for its priority. Forwarded to Interpretations group: 10 Sep 1999 Proposed resolution: 25 July 2000 Finalised interpretation: 29 August 2000