

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 #109

Topic: return type of `mq_timedreceive()` **Relevant Sections:** 15.2.5.1, Page 55, Line 72 of Draft 14 PASC

The return type of the new function `mq_timedreceive()` should be `ssize_t`, not `int`. This function was meant to be the functional equivalent of `mq_receive()` with the addition of a timeout capability. The ballot group failed to notice that the return type from the function was different from the original untimed function.

Change “`int`” in the synopsis line to “`ssize_t`”.

Interpretation Response

The standards states that the return type for function `mq_timedreceive()` should be `int`, and conforming implementations must conform to this. However, concerns have been raised about this which are being referred to the sponsor.

Rationale for Interpretation

The return type is inconsistent with `mq_receive()`.

Notes to Project Editor (not part of the interpretation)

This should be fixed as in section 11. Forwarded to Interpretations group: 13 June 2000
Proposed resolution: 13 June 2000 Finalised Interpretation: 25 July 2000