IEEE Standards Interpretations for IEEE Std 1003.1c™-1995 IEEE Standard for Information Technology--Portable Operating System Interface (POSIX(R)) - System Application Program Interface (API) Amendment 2: Threads Extension (C Language)

These are interpretations of IEEE Std 1003.1c-1995.

Interpretation Request #12
Topic: thread-specific data **Relevant Clauses**: 3.1.3.2, page 27 D10, lines 84-94

This function allows an application to essentially install cancellation type handlers to guarantee that the proper state is maintained in the child process after a fork. What is supposed to happen with allocated thread-specific data in the child process? These functions are, in effect, executed by the thread calling fork. If the other threads have allocated a lot of thread-specific data, there is no way for the process to release that memory. The child has immediately inherited a memory leak when using TSD. Is this intended? There is no way of using pthread_atfork() to release other threads' thread-specific data.

Interpretation Response
This is a duplicate. See Interpretation #3, part 11.

Rationale for Interpretation
None.