

NAME

thrd_sleep - high-resolution thread sleep

SYNOPSIS

library "threads"

#include <threads.h>

int

thrd_sleep(*const struct timespec *ts*);

DESCRIPTION

The function **thrd_sleep**() will suspend the execution of the current thread for a specified time interval *ts*. The time interval specified by *ts* might be rounded up, depending upon the system time resolution, as such a thread may sleep longer than requested.

The thread may be woken up by a signal regardless of the interval specified.

RETURN VALUES

The function **thrd_sleep**() will return 0 if the thread has been sleeping for at least the requested time. If an error occurs -1 will be returned, *errno* may be set but this cannot be relied upon, as it is not part of the standard behavior.

SEE ALSO

thrd_create(3) thrd_exit(3) thrd_yield(3) thrd_equal(3) thrd_detach(3) thrd_current(3) thrd_join(3)

HISTORY

The **thrd_sleep**() function first appeared in the C11 standard ISO/IEC 9899:2011.

AUTHORS

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