NAME

pthread_setschedprio − set scheduling priority of a thread

SYNOPSIS

#include <pthread.h>

int pthread_setschedprio(pthread_t *thread*, **int** *prio*);

Compile and link with −*pthread*.

DESCRIPTION

The **pthread_setschedprio**() function sets the scheduling priority of the thread *thread* to the value specified in *prio*. (By contrast **pthread_setschedparam**(3) changes both the scheduling policy and priority of a thread.)

RETURN VALUE

On success, this function returns 0; on error, it returns a nonzero error number. If **pthread_setschedprio**() fails, the scheduling priority of *thread* is not changed.

ERRORS

EINVAL

prio is not valid for the scheduling policy of the specified thread.

EPERM

The caller does not have appropriate privileges to set the specified priority.

ESRCH

No thread with the ID *thread* could be found.

POSIX.1 also documents an **ENOTSUP** ("attempt was made to set the priority to an unsupported value") error for **pthread_setschedparam**(3).

VERSIONS

This function is available in glibc since version 2.3.4.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
pthread_setschedprio()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

NOTES

For a description of the permissions required to, and the effect of, changing a thread's scheduling priority, and details of the permitted ranges for priorities in each scheduling policy, see **sched**(7).

SEE ALSO

getrlimit(2), **sched_get_priority_min**(2), **pthread_attr_init**(3), **pthread_attr_setinheritsched**(3), **pthread_attr_setschedparam**(3), **pthread_attr_setschedpolicy**(3), **pthread_create**(3), **pthread_self**(3), **pthread_setschedparam**(3), **pthreads**(7), **sched**(7)

COLOPHON

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