NAME

pthread_setschedprio – set scheduling priority of a thread

LIBRARY

POSIX threads library (*libpthread*, *−lpthread*)

SYNOPSIS

#include <pthread.h>

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

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 since glibc 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

STANDARDS

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)