



Linux Ubuntu 26.04 Manual Pages on command 'pthread_setschedprio.3'

\$ man pthread_setschedprio.3

pthread_setschedprio(3) Library Functions Manual pthread_setschedprio(3)

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).

ATTRIBUTES

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

[illegible]

POSIX.1-2008.

glibc 2.3.4. POSIX.1-2001.

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).

```
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)
```

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