



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'pthread\_setschedprio.3'***

**C:\>man pthread\_setschedprio.3**

PTHREAD\_SETSCHEDPRIO(3)      Linux Programmer's Manual      PTHREAD\_SETSCHEDPRIO(3)

### 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

This page is part of release 5.05 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

Linux                           2015-08-08                   PTHREAD\_SETSCHEDPRIO(3)