



Full credit is given to the above companies including the OS that this PDF file was generated!

Rocky Enterprise Linux 9.2 Manual Pages on command 'pthread_setschedprio.3'

\$ 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 spec?

ified priority.

ESRCH No thread with the ID thread could be found.

POSIX.1 also documents an ENOTSUP ("attempt was made to set the prior? ity 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 at? tributes(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 5.10 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/>.