



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

## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'pthread\_attr\_setschedpolicy.3' command**

### ***\$ man pthread\_attr\_setschedpolicy.3***

PTHREAD\_ATTR\_SETSCHEDPOLICYLinux Programmer's ManualPTHREAD\_ATTR\_SETSCHEDPOLICY(3)

#### NAME

pthread\_attr\_setschedpolicy, pthread\_attr\_getschedpolicy - set/get scheduling policy attribute in thread attributes object

#### SYNOPSIS

```
#include <pthread.h>

int pthread_attr_setschedpolicy(pthread_attr_t *attr, int policy);

int pthread_attr_getschedpolicy(const pthread_attr_t *attr, int *policy);

Compile and link with -pthread.
```

#### DESCRIPTION

The pthread\_attr\_setschedpolicy() function sets the scheduling policy attribute of the thread attributes object referred to by attr to the value specified in policy. This attribute determines the scheduling policy of a thread created using the thread attributes object attr.

The supported values for policy are SCHED\_FIFO, SCHED\_RR, and SCHED\_OTHER, with the semantics described in sched(7).

The pthread\_attr\_getschedpolicy() returns the scheduling policy attribute of the thread attributes object attr in the buffer pointed to by policy.

In order for the policy setting made by pthread\_attr\_setschedpolicy() to have effect when calling pthread\_create(3), the caller must use pthread\_attr\_setinheritsched(3) to set the inherit-scheduler attribute of the attributes object attr to PTHREAD\_EXPLICIT\_SCHED.

## RETURN VALUE

On success, these functions return 0; on error, they return a nonzero error number.

## ERRORS

`pthread_attr_setschedpolicy()` can fail with the following error:

`EINVAL` Invalid value in policy.

POSIX.1 also documents an optional `ENOTSUP` error ("attempt was made to set the attribute to an unsupported value") for `pthread_attr_setschedpolicy()`.

## ATTRIBUTES

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

??

?Interface            ? Attribute   ? Value ?

??

?`pthread_attr_setschedpolicy()`, ? Thread safety ? MT-Safe ?

?`pthread_attr_getschedpolicy()` ?            ?            ?

??

## CONFORMING TO

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

## EXAMPLES

See `pthread_setschedparam(3)`.

## SEE ALSO

`pthread_attr_init(3)`, `pthread_attr_setinheritsched(3)`,  
`pthread_attr_setschedparam(3)`, `pthread_create(3)`,  
`pthread_setschedparam(3)`, `pthread_setschedprio(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/>.