



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

**C:\>man pthread\_attr\_getschedpolicy.3**

PTHREAD\_ATTR\_SETSCHEDPOLICY(3) Linux Programmer's Manual PTHREAD\_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)`.

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?Interface            ? Attribute   ? Value   ?

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

?`pthread_attr_getschedpolicy()` ?            ?            ?

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## CONFORMING TO

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

## EXAMPLE

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)`, `threads(7)`, `sched(7)`

## COLOPHON

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