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

***\$ man pthread\_attr\_getschedpolicy.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).

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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.

#### 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/>.

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