



Linux Ubuntu 26.04 Manual Pages on command 'pthread_attr_setschedpolicy.3'

\$ man pthread_attr_setschedpolicy.3

pthread_attr_setschedpolicy(3) Library Functions Manual pthread_attr_setschedpolicy(3)

NAME

pthread_attr_setschedpolicy, pthread_attr_getschedpolicy - set/get scheduling policy at?
tribute in thread attributes object

LIBRARY

POSIX threads library (libpthread, -lpthread)

SYNOPSIS

```
#include <pthread.h>

int pthread_attr_setschedpolicy(pthread_attr_t *attr, int policy);

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

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)`.

[illegible]

?	Interface	?	Attribute	?	Value	?
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[illegible]

? pthread_attr_t schedpolicy(), pthread_attr_t getschedpolicy() ? Thread safety ? MT-Safe ?

[illegible]

STANDARDS

POSIX.1-2008.

HISTORY

glibc 2.0. POSIX.1-2001.

EXAMPLES

See `pthread_setschedparam(3)`.

SEE ALSO

pthread_attr_t init(3), pthread_attr_t setinheritsched(3), pthread_attr_t setschedparam(3),

pthread_create(3), pthread_setschedparam(3), pthread_setschedprio(3), pthreads(7), sched(7)