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

\$ 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).

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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

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Linux

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