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(), **pthread_attr_getschedpolicy**()	Thread safety	MT-Safe

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), **pthreads**(7), **sched**(7)

COLOPHON

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