NAME

pthread_attr_setdetachstate, pthread_attr_getdetachstate - set/get detach state attribute in thread attributes object

LIBRARY

POSIX threads library (*libpthread*, –*lpthread*)

SYNOPSIS

#include <pthread.h>

 $\label{lem:constraint} \begin{array}{l} \textbf{int pthread_attr_setdetachstate}(\textbf{pthread_attr_t} * \textit{attr}, \textbf{int } \textit{detachstate});\\ \textbf{int pthread_attr_getdetachstate}(\textbf{const pthread_attr_t} * \textit{attr}, \end{array}$

int *detachstate);

DESCRIPTION

The **pthread_attr_setdetachstate**() function sets the detach state attribute of the thread attributes object referred to by *attr* to the value specified in *detachstate*. The detach state attribute determines whether a thread created using the thread attributes object *attr* will be created in a joinable or a detached state.

The following values may be specified in *detachstate*:

PTHREAD_CREATE_DETACHED

Threads that are created using attr will be created in a detached state.

PTHREAD_CREATE_JOINABLE

Threads that are created using *attr* will be created in a joinable state.

The default setting of the detach state attribute in a newly initialized thread attributes object is **PTHREAD_CREATE_JOINABLE**.

The **pthread_attr_getdetachstate**() returns the detach state attribute of the thread attributes object *attr* in the buffer pointed to by *detachstate*.

RETURN VALUE

On success, these functions return 0; on error, they return a nonzero error number.

ERRORS

pthread_attr_setdetachstate() can fail with the following error:

EINVAL

An invalid value was specified in detachstate.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
$pthread_attr_setdetachstate(), pthread_attr_getdetachstate()$	Thread safety	MT-Safe

STANDARDS

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

NOTES

See **pthread_create**(3) for more details on detached and joinable threads.

A thread that is created in a joinable state should eventually either be joined using **pthread_join**(3) or detached using **pthread_detach**(3); see **pthread_create**(3).

It is an error to specify the thread ID of a thread that was created in a detached state in a later call to **pthread_detach**(3) or **pthread_join**(3).

EXAMPLES

See pthread_attr_init(3).

SEE ALSO

pthread_attr_init(3), pthread_create(3), pthread_detach(3), pthread_join(3), pthreads(7)