

NAME

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

SYNOPSIS

```
#include <pthread.h>
```

```
int pthread_attr_setdetachstate(pthread_attr_t *attr, int detachstate);
int pthread_attr_getdetachstate(const pthread_attr_t *attr, int *detachstate);
```

Compile and link with `-pthread`.

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
<code>pthread_attr_setdetachstate()</code> , <code>pthread_attr_getdetachstate()</code>	Thread safety	MT-Safe

CONFORMING TO

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\(3\)](#).

EXAMPLE

See [pthread_attr_init\(3\)](#).

SEE ALSO

[pthread_attr_init\(3\)](#), [pthread_create\(3\)](#), [pthread_detach\(3\)](#), [pthread_join\(3\)](#), [pthreads\(7\)](#)

COLOPHON

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