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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'pthread_attr_setdetachstate.3' command

\$ man pthread_attr_setdetachstate.3

PTHREAD_ATTR_SETDETACHSTATE Linux Programmer's Manual PTHREAD_ATTR_SETDETACHSTATE(3)

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).

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?Interface ? Attribute ? Value ?

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?pthread_attr_setdetachstate(), ? Thread safety ? MT-Safe ?

?pthread_attr_getdetachstate() ? ? ?

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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).

EXAMPLES

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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