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

$ man pthread_detach.3

PTHREAD_DETACH(3)   Linux Programmer's Manual   PTHREAD_DETACH(3)

NAME

    pthread_detach - detach a thread

SYNOPSIS

    #include <pthread.h>

    int pthread_detach(pthread_t thread);

    Compile and link with -pthread.

DESCRIPTION

    The pthread_detach() function marks the thread identified by thread as

    detached. When a detached thread terminates, its resources are auto?

    matically released back to the system without the need for another

    thread to join with the terminated thread.

    Attempting to detach an already detached thread results in unspecified

    behavior.

RETURN VALUE

    On success, pthread_detach() returns 0; on error, it returns an error

    number.

ERRORS

EINVAL thread is not a joinable thread.

ESRCH No thread with the ID thread could be found.

ATTRIBUTES

For an explanation of the terms used in this section, see at?

tributes(7).

???

?Interface ? Attribute ? Value ?

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?pthread_detach() ? Thread safety ? MT-Safe ?

??

CONFORMING TO

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

NOTES

Once a thread has been detached, it can't be joined with
pthread_join(3) or be made joinable again.

A new thread can be created in a detached state using pthread_attr_set?
detachstate(3) to set the detached attribute of the attr argument of
pthread_create(3).

The detached attribute merely determines the behavior of the system
when the thread terminates; it does not prevent the thread from being
terminated if the process terminates using exit(3) (or equivalently, if
the main thread returns).

Either pthread_join(3) or pthread_detach() should be called for each
thread that an application creates, so that system resources for the
thread can be released. (But note that the resources of any threads
for which one of these actions has not been done will be freed when the
process terminates.)

EXAMPLES

The following statement detaches the calling thread:

    pthread_detach(pthread_self());

SEE ALSO

pthread_attr_setdetachstate(3), pthread_cancel(3), pthread_create(3),
pthread_exit(3), pthread_join(3), pthreads(7)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project.   A
description of the project, information about reporting bugs, and the
latest   version   of   this   page,   can   be   found   at
https://www.kernel.org/doc/man-pages/.

Linux   2020-06-09   PTHREAD_DETACH(3)