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

$ man pthread_attr_getstacksize.3

PTHREAD_ATTR_SETSTACKSIZE(3Linux Programmer's ManuPTHREAD_ATTR_SETSTACKSIZE(3)

NAME

pthread_attr_setstacksize, pthread_attr_getstacksize - set/get stack size attribute in thread attributes object

SYNOPSIS

#include <pthread.h>

int pthread_attr_setstacksize(pthread_attr_t *attr, size_t stacksize);

int pthread_attr_getstacksize(const pthread_attr_t *attr,
size_t *stacksize);

Compile and link with -pthread.

DESCRIPTION

The pthread_attr_setstacksize() function sets the stack size attribute of the thread attributes object referred to by attr to the value speci? fied in stacksize.

The stack size attribute determines the minimum size (in bytes) that will be allocated for threads created using the thread attributes ob? ject attr.

The pthread_attr_getstacksize() function returns the stack size attri?

bute of the thread attributes object referred to by attr in the buffer pointed to by stacksize.

RETURN VALUE

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

ERRORS

pthread_attr_setstacksize() can fail with the following error:

EINVAL The stack size is less than PTHREAD_STACK_MIN (16384) bytes.

On some systems, pthread_attr_setstacksize() can fail with the error EINVAL if stacksize is not a multiple of the system page size.

VERSIONS

These functions are provided by glibc since version 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

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?Interface ? Attribute ? Value ?

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

?pthread_attr_getstacksize() ? ? ?

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CONFORMING TO

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

NOTES

For details on the default stack size of new threads, see pthread_cre? ate(3).

A thread's stack size is fixed at the time of thread creation. Only the main thread can dynamically grow its stack.

The pthread_attr_setstack(3) function allows an application to set both the size and location of a caller-allocated stack that is to be used by a thread.

BUGS

As at glibc 2.8, if the specified stacksize is not a multiple of

STACK_ALIGN (16 bytes on most architectures), it may be rounded down? ward, in violation of POSIX.1, which says that the allocated stack will be at least stacksize bytes.

EXAMPLES

See pthread_create(3).

SEE ALSO

getrlimit(2), pthread_attr_init(3), pthread_attr_setguardsize(3), pthread_attr_setstack(3), pthread_create(3), pthreads(7)

COLOPHON

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