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

\$ man pthread_mutex_consistent.3

PTHREAD_MUTEX_CONSISTENT(3)Linux Programmer's ManuaPTHREAD_MUTEX_CONSISTENT(3)

NAME

pthread_mutex_consistent - make a robust mutex consistent

SYNOPSIS

#include <pthread.h>

int pthread_mutex_consistent(pthread_mutex_t *mutex);

Compile and link with -pthread.

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

pthread_mutex_consistent():

_POSIX_C_SOURCE >= 200809L

DESCRIPTION

This function makes a robust mutex consistent if it is in an inconsis?

tent state. A mutex can be left in an inconsistent state if its owner

terminates while holding the mutex, in which case the next owner who

acquires the mutex will succeed and be notified by a return value of

EOWNERDEAD from a call to pthread_mutex_lock().

RETURN VALUE

On success, pthread_mutex_consistent() returns 0. Otherwise, it re?

turns a positive error number to indicate the cause of the error.

ERRORS

EINVAL The mutex is either not robust or is not in an inconsistent state.

VERSIONS

pthread_mutex_consistent() was added to glibc in version 2.12.

CONFORMING TO

POSIX.1-2008.

NOTES

pthread_mutex_consistent() simply informs the implementation that the state (shared data) guarded by the mutex has been restored to a consis? tent state and that normal operations can now be performed with the mu? tex. It is the application's responsibility to ensure that the shared data has been restored to a consistent state before calling pthread_mu? tex_consistent().

Before the addition of pthread_mutex_consistent() to POSIX, glibc de? fined the following equivalent nonstandard function if _GNU_SOURCE was defined:

int pthread_mutex_consistent(const pthread_mutex_t *mutex);

This GNU-specific API, which first appeared in glibc 2.4, is nowadays

obsolete and should not be used in new programs.

EXAMPLES

See pthread_mutexattr_setrobust(3).

SEE ALSO

pthread_mutex_lock(3), pthread_mutexattr_init(3),

pthread_mutexattr_getrobust(3), pthread_mutexattr_setrobust(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/.

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