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

C:\>man pthread_sigqueue.3

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

NAME

pthread_sigqueue - queue a signal and data to a thread

SYNOPSIS

```
#include <signal.h>
#include <pthread.h>
int pthread_sigqueue(pthread_t thread, int sig,
                     const union sigval value);
```

Compile and link with -pthread.

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

pthread_sigqueue(): _GNU_SOURCE

DESCRIPTION

The pthread_sigqueue() function performs a similar task to sigqueue(3), but, rather than sending a signal to a process, it sends a signal to a thread in the same process as the calling thread.

The thread argument is the ID of a thread in the same process as the caller. The sig argument specifies the signal to be sent. The value argument specifies data to accompany the signal; see sigqueue(3) for details.

RETURN VALUE

On success, pthread_sigqueue() returns 0; on error, it returns an error number.

ERRORS

EAGAIN The limit of signals which may be queued has been reached. (See signal(7)

for further information.)

EINVAL sig was invalid.

ENOSYS pthread_sigqueue() is not supported on this system.

ESRCH thread is not valid.

VERSIONS

The pthread_sigqueue() function first appeared in glibc 2.11.

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_sigqueue() ? Thread safety ? MT-Safe ?

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CONFORMING TO

This function is a GNU extension.

NOTES

The glibc implementation of pthread_sigqueue() gives an error (EINVAL) on attempts to send either of the real-time signals used internally by the NPTL threading im? plementation. See nptl(7) for details.

SEE ALSO

rt_tgsigqueueinfo(2), sigaction(2), pthread_sigmask(3), sigqueue(3), sigwait(3), pthreads(7), signal(7)

COLOPHON

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