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).

Interface	Attribute	Value
pthread_sigqueue()	Thread safety	MT-Safe

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 implementation. 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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