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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'pthread\_sigqueue.3' command***

### ***\$ 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 ?

????????????????????????????????????????????????????????????

?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\_tsigqueueinfo(2), sigaction(2), pthread\_sigmask(3), sigqueue(3), sigwait(3), pthreads(7), signal(7)

#### COLOPHON

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