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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sigwait.3' command

\$ man sigwait.3

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

NAME

sigwait - wait for a signal

SYNOPSIS

```
#include <signal.h>
```

```
int sigwait(const sigset_t *set, int *sig);
```

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

sigwait():

Since glibc 2.26:

```
_POSIX_C_SOURCE >= 199506L
```

Glibc 2.25 and earlier:

```
_POSIX_C_SOURCE
```

DESCRIPTION

The `sigwait()` function suspends execution of the calling thread until one of the signals specified in the signal set `set` becomes pending.

The function accepts the signal (removes it from the pending list of signals), and returns the signal number in `sig`.

The operation of `sigwait()` is the same as `sigwaitinfo(2)`, except that:

- * `sigwait()` returns only the signal number, rather than a `siginfo_t` structure describing the signal.

- * The return values of the two functions are different.

RETURN VALUE

On success, `sigwait()` returns 0. On error, it returns a positive error

number (listed in ERRORS).

ERRORS

EINVAL set contains an invalid signal number.

ATTRIBUTES

For an explanation of the terms used in this section, see at?

tributes(7).

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

?Interface ? Attribute ? Value ?

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

?sigwait() ? Thread safety ? MT-Safe ?

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

CONFORMING TO

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

NOTES

sigwait() is implemented using sigtimedwait(2).

The glibc implementation of sigwait() silently ignores attempts to wait for the two real-time signals that are used internally by the NPTL threading implementation. See nptl(7) for details.

EXAMPLES

See pthread_sigmask(3).

SEE ALSO

sigaction(2), signalfd(2), sigpending(2), sigsuspend(2), sigwait? info(2), sigsetops(3), signal(7)

COLOPHON

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