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

$ man sigismember.3

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

NAME

    sigemptyset, sigfillset, sigaddset, sigdelset, sigismember - POSIX sig?

    nal set operations

SYNOPSIS

    #include <signal.h>

    int sigemptyset(sigset_t *set);

    int sigfillset(sigset_t *set);

    int sigaddset(sigset_t *set, int signum);

    int sigdelset(sigset_t *set, int signum);

    int sigismember(const sigset_t *set, int signum);

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

    sigemptyset(), sigfillset(), sigaddset(), sigdelset(), sigismember():

        _POSIX_C_SOURCE

DESCRIPTION

    These functions allow the manipulation of POSIX signal sets.

    sigemptyset() initializes the signal set given by set to empty, with

    all signals excluded from the set.

sigfillset() initializes set to full, including all signals.

sigaddset() and sigdelset() add and delete respectively signal signum from set.

sigismember() tests whether signum is a member of set.

Objects of type sigset_t must be initialized by a call to either sigemptyset() or sigfillset() before being passed to the functions sigaddset(), sigdelset(), and sigismember() or the additional glibc functions described below (sigisemptyset(), sigandset(), and sig? orset()). The results are undefined if this is not done.

RETURN VALUE

sigemptyset(), sigfillset(), sigaddset(), and sigdelset() return 0 on success and -1 on error.

sigismember() returns 1 if signum is a member of set, 0 if signum is not a member, and -1 on error.

On error, these functions set errno to indicate the cause of the error.

ERRORS

EINVAL signum is not a valid signal.

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

```
???????????????????????????????????????????????????????????????????
?Interface                 ? Attribute   ? Value  ?
???????????????????????????????????????????????????????????????????
?sigemptyset(), sigfillset(),   ? Thread safety ? MT-Safe ?
?sigaddset(), sigdelset(),     ?          ?      ?
?sigismember(), sigisemptyset(), ?        ?     ?
?sigorset(), sigandset()      ?         ?     ?
???????????????????????????????????????????????????????????????????
```

CONFORMING TO

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

NOTES

When creating a filled signal set, the glibc sigfillset() function does not include the two real-time signals used internally by the NPTL

threading implementation. See nptl(7) for details.

Glibc extensions

If the _GNU_SOURCE feature test macro is defined, then <signal.h> ex‐
poses three other functions for manipulating signal sets:

int sigisemptyset(const sigset_t *set);

int sigorset(sigset_t *dest, const sigset_t *left,

      const sigset_t *right);

int sigandset(sigset_t *dest, const sigset_t *left,

      const sigset_t *right);

sigisemptyset() returns 1 if set contains no signals, and 0 otherwise.

sigorset() places the union of the sets left and right in dest.

sigandset() places the intersection of the sets left and right in dest.

Both functions return 0 on success, and -1 on failure.

These functions are nonstandard (a few other systems provide similar

functions) and their use should be avoided in portable applications.

SEE ALSO

sigaction(2), sigpending(2), sigprocmask(2), sigsuspend(2)

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/.

Linux   2020-12-21   SIGSETOPS(3)