



Linux Ubuntu 26.04 Manual Pages on command 'sigignore.3'

\$ man sigignore.3

sigset(3) Library Functions Manual sigset(3)

NAME

sigset, sighold, sigrelse, sigignore - System V signal API

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <signal.h>

typedef typedef(void (int)) *sighandler_t;

[[deprecated]] sighandler_t sigset(int sig, sighandler_t disp);

[[deprecated]] int sighold(int sig);

[[deprecated]] int sigrelse(int sig);

[[deprecated]] int sigignore(int sig);
```

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

```
sigset(), sighold(), sigrelse(), sigignore():

_XOPEN_SOURCE >= 500
```

DESCRIPTION

These functions are provided in glibc as a compatibility interface for programs that make use of the historical System V signal API. This API is obsolete: new applications should use the POSIX signal API (sigaction(2), sigprocmask(2), etc.)

The sigset() function modifies the disposition of the signal sig. The disp argument can be the address of a signal handler function, or one of the following constants:

SIG_DFL

Reset the disposition of sig to the default.

SIG_IGN

Ignore sig.

SIG_HOLD

Add sig to the process's signal mask, but leave the disposition of sig unchanged.

If disp specifies the address of a signal handler, then sig is added to the process's signal mask during execution of the handler.

If disp was specified as a value other than SIG_HOLD, then sig is removed from the process's signal mask.

The dispositions for SIGKILL and SIGSTOP cannot be changed.

The sighold() function adds sig to the calling process's signal mask.

The sigrelse() function removes sig from the calling process's signal mask.

The sigignore() function sets the disposition of sig to SIG_IGN.

RETURN VALUE

On success, sigset() returns SIG_HOLD if sig was blocked before the call, or the signal's previous disposition if it was not blocked before the call. On error, sigset() returns -1, with errno set to indicate the error. (But see BUGS below.)

The sighold(), sigrelse(), and sigignore() functions return 0 on success; on error, these functions return -1 and set errno to indicate the error.

ERRORS

For sigset() see the ERRORS under sigaction(2) and sigprocmask(2).

For sighold() and sigrelse() see the ERRORS under sigprocmask(2).

For sigignore(), see the errors under sigaction(2).

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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? sigset(), sighold(), sigrelse(), sigignore() ? Thread safety ? MT-Safe ?

??

STANDARDS

POSIX.1-2008.

sighandler_t

GNU. POSIX.1 uses the same type but without a typedef.

HISTORY

glibc 2.1. SVr4, POSIX.1-2001. POSIX.1-2008 marks these functions as obsolete, recommending the use of `sigaction(2)`, `sigprocmask(2)`, `pthread_sigmask(3)`, and `sigsuspend(2)` instead.

NOTES

The `sigset()` function provides reliable signal handling semantics (as when calling `sigaction(2)` with `sa_mask` equal to 0).

On System V, the `signal()` function provides unreliable semantics (as when calling `sigaction(2)` with `sa_mask` equal to `SA_RESETHAND | SA_NODEFER`). On BSD, `signal()` provides reliable semantics. POSIX.1-2001 leaves these aspects of `signal()` unspecified. See `signal(2)` for further details.

In order to wait for a signal, BSD and System V both provided a function named `sigpause(3)`, but this function has a different argument on the two systems. See `sigpause(3)` for details.

BUGS

Before glibc 2.2, `sigset()` did not unblock sig if `disp` was specified as a value other than `SIG_HOLD`.

Before glibc 2.5, `sigset()` does not correctly return the previous disposition of the signal in two cases. First, if `disp` is specified as `SIG_HOLD`, then a successful `sigset()` always returns `SIG_HOLD`. Instead, it should return the previous disposition of the signal (unless the signal was blocked, in which case `SIG_HOLD` should be returned). Second, if the signal is currently blocked, then the return value of a successful `sigset()` should be `SIG_HOLD`. Instead, the previous disposition of the signal is returned. These problems have been fixed since glibc 2.5.

SEE ALSO

`kill(2)`, `pause(2)`, `sigaction(2)`, `signal(2)`, `sigprocmask(2)`, `raise(3)`, `sigpause(3)`, `sigvec(3)`, `signal(7)`