NAME

sigpause - atomically release blocked signals and wait for interrupt

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

#include <signal.h>

int signause(int sigmask); /* BSD (but see NOTES) */

int sigpause(int sig); /* System V / UNIX 95 */

DESCRIPTION

Don't use this function. Use **sigsuspend**(2) instead.

The function **sigpause**() is designed to wait for some signal. It changes the process's signal mask (set of blocked signals), and then waits for a signal to arrive. Upon arrival of a signal, the original signal mask is restored.

RETURN VALUE

If sigpause() returns, it was interrupted by a signal and the return value is -1 with errno set to EINTR.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
sigpause()	Thread safety	MT-Safe

STANDARDS

The System V version of **sigpause**() is standardized in POSIX.1-2001. It is also specified in POSIX.1-2008, where it is marked obsolete.

NOTES

History

The classical BSD version of this function appeared in 4.2BSD. It sets the process's signal mask to *sigmask*. UNIX 95 standardized the incompatible System V version of this function, which removes only the specified signal *sig* from the process's signal mask. The unfortunate situation with two incompatible functions with the same name was solved by the **sigsuspend**(2) function, that takes a *sigset_t* * argument (instead of an *int*).

Linux notes

On Linux, this routine is a system call only on the Sparc (sparc64) architecture.

glibc uses the BSD version if the **_BSD_SOURCE** feature test macro is defined and none of **_POSIX_SOURCE**, **_POSIX_C_SOURCE**, **_XOPEN_SOURCE**, **_GNU_SOURCE**, or **_SVID_SOURCE** is defined. Otherwise, the System V version is used, and feature test macros must be defined as follows to obtain the declaration:

- Since glibc 2.26: _XOPEN_SOURCE >= 500
- glibc 2.25 and earlier: _XOPEN_SOURCE

Since glibc 2.19, only the System V version is exposed by *signal.h*; applications that formerly used the BSD **signause**() should be amended to use **sigsuspend**(2).

SEE ALSO

kill(2), sigaction(2), sigprocmask(2), sigsuspend(2), sigblock(3), sigvec(3), feature_test_macros(7)