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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'rt_sigpending.2' command

\$ man rt_sigpending.2

SIGPENDING(2) Linux Programmer's Manual SIGPENDING(2)

NAME

sigpending, rt_sigpending - examine pending signals

SYNOPSIS

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

```
int sigpending(sigset_t *set);
```

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

```
sigpending(): _POSIX_C_SOURCE
```

DESCRIPTION

sigpending() returns the set of signals that are pending for delivery to the calling thread (i.e., the signals which have been raised while blocked). The mask of pending signals is returned in set.

RETURN VALUE

sigpending() returns 0 on success and -1 on error. In the event of an error, errno is set to indicate the cause.

ERRORS

EFAULT set points to memory which is not a valid part of the process address space.

CONFORMING TO

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

NOTES

See sigsetops(3) for details on manipulating signal sets.

If a signal is both blocked and has a disposition of "ignored", it is

not added to the mask of pending signals when generated.

The set of signals that is pending for a thread is the union of the set of signals that is pending for that thread and the set of signals that is pending for the process as a whole; see `signal(7)`.

A child created via `fork(2)` initially has an empty pending signal set; the pending signal set is preserved across an `execve(2)`.

C library/kernel differences

The original Linux system call was named `sigpending()`. However, with the addition of real-time signals in Linux 2.2, the fixed-size, 32-bit `sigset_t` argument supported by that system call was no longer fit for purpose. Consequently, a new system call, `rt_sigpending()`, was added to support an enlarged `sigset_t` type. The new system call takes a second argument, `size_t sigsetsize`, which specifies the size in bytes of the signal set in `set`. The glibc `sigpending()` wrapper function hides these details from us, transparently calling `rt_sigpending()` when the kernel provides it.

BUGS

In versions of glibc up to and including 2.2.1, there is a bug in the wrapper function for `sigpending()` which means that information about pending real-time signals is not correctly returned.

SEE ALSO

`kill(2)`, `sigaction(2)`, `signal(2)`, `sigprocmask(2)`, `sigsuspend(2)`, `sigsetops(3)`, `signal(7)`

COLOPHON

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