



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

\$ man siginterrupt.3

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

NAME

siginterrupt - allow signals to interrupt system calls

SYNOPSIS

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

```
int siginterrupt(int sig, int flag);
```

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

```
siginterrupt():
```

```
  _XOPEN_SOURCE >= 500
```

```
  || /* Since glibc 2.12: */ _POSIX_C_SOURCE >= 200809L
```

```
  || /* Glibc versions <= 2.19: */ _BSD_SOURCE
```

DESCRIPTION

The `siginterrupt()` function changes the restart behavior when a system call is interrupted by the signal `sig`. If the `flag` argument is `false` (0), then system calls will be restarted if interrupted by the specified signal `sig`. This is the default behavior in Linux.

If the `flag` argument is `true` (1) and no data has been transferred, then a system call interrupted by the signal `sig` will return -1 and `errno`

will be set to EINTR.

If the flag argument is true (1) and data transfer has started, then the system call will be interrupted and will return the actual amount of data transferred.

RETURN VALUE

The `siginterrupt()` function returns 0 on success. It returns -1 if the signal number `sig` is invalid, with `errno` set to indicate the cause of the error.

ERRORS

EINVAL The specified signal number is invalid.

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

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?Interface ? Attribute ? Value ?

??

?siginterrupt() ? Thread safety ? MT-Unsafe const:signtr ?

??

CONFORMING TO

4.3BSD, POSIX.1-2001. POSIX.1-2008 marks `siginterrupt()` as obsolete, recommending the use of `sigaction(2)` with the `SA_RESTART` flag instead.

SEE ALSO

[signal\(2\)](#)

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/>.

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