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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'siginterrupt.3' command**

### **\$ 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:`sigintr` ?

????????????????????????????????????????????????????????????

## 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/>.