



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

\$ man siginterrupt.3p

SIGINTERRUPT(3P) POSIX Programmer's Manual SIGINTERRUPT(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

siginterrupt ? allow signals to interrupt functions

SYNOPSIS

```
#include <signal.h>

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

DESCRIPTION

The siginterrupt() function shall change the restart behavior when a function is interrupted by the specified signal. The function siginterrupt(sig, flag) has an effect as if implemented as:

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

    struct sigaction act;

    (void) sigaction(sig, NULL, &act);

    if (flag)
        act.sa_flags &= ~SA_RESTART;
    else
        act.sa_flags |= SA_RESTART;
```

```
    ret = sigaction(sig, &act, NULL);  
    return ret;  
}
```

RETURN VALUE

Upon successful completion, `siginterrupt()` shall return 0; otherwise, -1 shall be returned and `errno` set to indicate the error.

ERRORS

The `siginterrupt()` function shall fail if:

`EINVAL` The `sig` argument is not a valid signal number.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

The `siginterrupt()` function supports programs written to historical system interfaces. Applications should use the `sigaction()` with the `SA_RESTART` flag instead of the obsolescent `siginterrupt()` function.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

Section 2.4, Signal Concepts, `sigaction()`

The Base Definitions volume of POSIX.1-2017, `<signal.h>`

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