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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sysv\_signal.3' command***

### ***\$ man sysv\_signal.3***

SYSV\_SIGNAL(3)      Linux Programmer's Manual      SYSV\_SIGNAL(3)

#### **NAME**

sysv\_signal - signal handling with System V semantics

#### **SYNOPSIS**

```
#define _GNU_SOURCE      /* See feature_test_macros(7) */

#include <signal.h>

typedef void (*sighandler_t)(int);

sighandler_t sysv_signal(int signum, sighandler_t handler);
```

#### **DESCRIPTION**

The `sysv_signal()` function takes the same arguments, and performs the same task, as `signal(2)`.

However `sysv_signal()` provides the System V `unreliable` signal semantics, that is: a) the disposition of the signal is reset to the default when the handler is invoked; b) delivery of further instances of the signal is not blocked while the signal handler is executing; and c) if the handler interrupts (certain) blocking system calls, then the system call is not automatically restarted.

#### **RETURN VALUE**

The `sysv_signal()` function returns the previous value of the signal handler, or `SIG_ERR` on error.

#### **ERRORS**

As for `signal(2)`.

#### **ATTRIBUTES**

For an explanation of the terms used in this section, see at? tributes(7).

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?Interface ? Attribute ? Value ?

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?sysv\_signal() ? Thread safety ? MT-Safe ?

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## CONFORMING TO

This function is nonstandard.

## NOTES

Use of sysv\_signal() should be avoided; use sigaction(2) instead.

On older Linux systems, sysv\_signal() and signal(2) were equivalent.

But on newer systems, signal(2) provides reliable signal semantics; see signal(2) for details.

The use of sighandler\_t is a GNU extension; this type is defined only if the \_GNU\_SOURCE feature test macro is defined.

## SEE ALSO

sigaction(2), signal(2), bsd\_signal(3), signal(7)

## 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/>.

2017-09-15 SYSV\_SIGNAL(3)