

NAME

strsignal, sigabbrev_np, sigdescr_np, sys_siglist – return string describing signal

LIBRARY

Standard C library (*libc*, *-lc*)

SYNOPSIS

```
#include <string.h>

char *strsignal(int sig);
const char *sigdescr_np(int sig);
const char *sigabbrev_np(int sig);

[[deprecated]] extern const char *const sys_siglist[];
```

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

```
sigabbrev_np(), sigdescr_np():
    _GNU_SOURCE

strsignal():
    From glibc 2.10 to glibc 2.31:
        _POSIX_C_SOURCE >= 200809L
    Before glibc 2.10:
        _GNU_SOURCE

sys_siglist:
    Since glibc 2.19:
        _DEFAULT_SOURCE
    glibc 2.19 and earlier:
        _BSD_SOURCE
```

DESCRIPTION

The **strsignal()** function returns a string describing the signal number passed in the argument *sig*. The string can be used only until the next call to **strsignal()**. The string returned by **strsignal()** is localized according to the **LC_MESSAGES** category in the current locale.

The **sigdescr_np()** function returns a string describing the signal number passed in the argument *sig*. Unlike **strsignal()** this string is not influenced by the current locale.

The **sigabbrev_np()** function returns the abbreviated name of the signal, *sig*. For example, given the value **SIGINT**, it returns the string "INT".

The (deprecated) array *sys_siglist* holds the signal description strings indexed by signal number. The **strsignal()** or the **sigdescr_np()** function should be used instead of this array; see also **VERSIONS**.

RETURN VALUE

The **strsignal()** function returns the appropriate description string, or an unknown signal message if the signal number is invalid. On some systems (but not on Linux), **NULL** may instead be returned for an invalid signal number.

The **sigdescr_np()** and **sigabbrev_np()** functions return the appropriate description string. The returned string is statically allocated and valid for the lifetime of the program. These functions return **NULL** for an invalid signal number.

VERSIONS

sigdescr_np() and **sigabbrev_np()** first appeared in glibc 2.32.

Starting with glibc 2.32, the *sys_siglist* symbol is no longer exported by glibc.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes(7)**.

Interface	Attribute	Value
strsignal()	Thread safety	MT-Unsafe race:strsignal locale
sigdescr_np() , sigabbrev_np()	Thread safety	MT-Safe

STANDARDS

strsignal(): POSIX.1-2008. Present on Solaris and the BSDs.

sigdescr_np() and **sigabbrev_np()** are GNU extensions.

sys_siglist is nonstandard, but present on many other systems.

NOTES

sigdescr_np() and **sigabbrev_np()** are thread-safe and async-signal-safe.

SEE ALSO

psignal(3), **strerror(3)**