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

\$ man signbit.3

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

NAME

signbit - test sign of a real floating-point number

SYNOPSIS

```
#include <math.h>
```

```
int signbit(x);
```

Link with -lm.

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

```
signbit():
```

```
  _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

DESCRIPTION

signbit() is a generic macro which can work on all real floating-point types. It returns a nonzero value if the value of x has its sign bit set.

This is not the same as $x < 0.0$, because IEEE 754 floating point allows zero to be signed. The comparison $-0.0 < 0.0$ is false, but `signbit(-0.0)` will return a nonzero value.

NaNs and infinities have a sign bit.

RETURN VALUE

The `signbit()` macro returns nonzero if the sign of `x` is negative; otherwise it returns zero.

ERRORS

No errors occur.

ATTRIBUTES

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

??

?Interface ? Attribute ? Value ?

??

?`signbit()` ? Thread safety ? MT-Safe ?

??

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C99. This function is defined in IEC 559 (and the appendix with recommended functions in IEEE 754/IEEE 854).

SEE ALSO

[copysign\(3\)](#)

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/>.