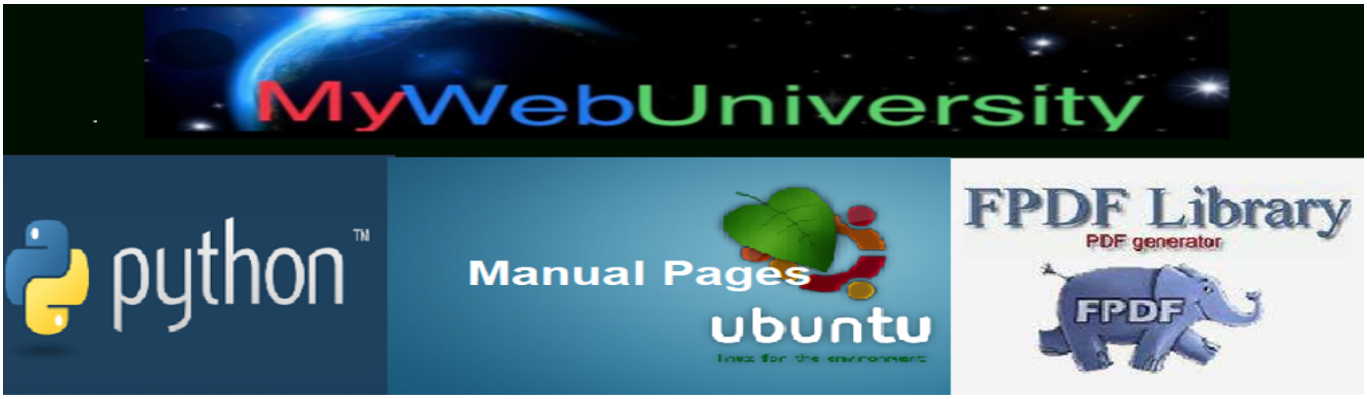

Rocky Enterprise Linux 9.2 Manual Pages on command 'signbit.3'

$ 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/.