



**Full credit is given to the above companies including the Operating System (OS) that this PDF file was generated!**

***Rocky Enterprise Linux 9.2 Manual Pages on command 'copysign.3'***

**\$ man copysign.3**

COPYSIGN(3)

Linux Programmer's Manual

COPYSIGN(3)

## NAME

copysign, copysignf, copysignl - copy sign of a number

## SYNOPSIS

```
#include <math.h>

double copysign(double x, double y);

float copysignf(float x, float y);

long double copysignl(long double x, long double y);
```

Link with -lm.

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

copysign(), copysignf(), copysignl():

\_ISOC99\_SOURCE || \_POSIX\_C\_SOURCE >= 200112L

|| /\* Since glibc 2.19: \*/ \_DEFAULT\_SOURCE

|| /\* Glibc versions <= 2.19: \*/ \_BSD\_SOURCE || \_SVID\_SOURCE

## DESCRIPTION

These functions return a value whose absolute value matches that of x, but whose sign bit matches that of y.

For example, copysign(42.0, -1.0) and copysign(-42.0, -1.0) both return -42.0.

## RETURN VALUE

On success, these functions return a value whose magnitude is taken from x and whose sign is taken from y.

If x is a NaN, a NaN with the sign bit of y is returned.

## ERRORS

No errors occur.

## ATTRIBUTES

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

?copysign(), copysignf(), copysignl() ? Thread safety ? MT-Safe ?

## CONFORMING TO

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

## NOTES

On architectures where the floating-point formats are not IEEE 754 compliant, these functions may treat a negative zero as positive.

## SEE ALSO

signbit(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/>.

GNU

2017-09-15

### COPYSIGN(3)