



Linux Ubuntu 26.04 Manual Pages on command 'copysignl.3'

\$ man copysignl.3

copysign(3) Library Functions Manual copysign(3)

NAME

copysign, copysignf, copysignl - copy sign of a number

LIBRARY

Math library (libm, -lm)

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);
```

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 <= 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)`.

[illegible]

?	Interface	?	Attribute	?	Value	?
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[illegible]

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

[illegible]

VERSIONS

On architectures where the floating-point formats are not IEEE 754 compliant, these func?

tions may treat a negative zero as positive.

STANDARDS

C11, POSIX.1-2008.

This function is defined in IEC 559 (and the appendix with recommended functions in IEEE 754/IEEE 854).

HISTORY

C99, POSIX.1-2001, 4.3BSD.

SEE ALSO

signbit(3)

Linux man-pages 6.17

2026-02-08

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