



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

C:\>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.

