NAME

fabs, fabsf, fabsl - absolute value of floating-point number

SYNOPSIS

```
#include <math.h>
double fabs(double x);
float fabsf(float x);
long double fabsl(long double x);
Link with -lm.

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):
    fabsf(), fabsl():
        _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
        || /* Since glibc 2.19: */_DEFAULT_SOURCE
```

DESCRIPTION

These functions return the absolute value of the floating-point number x.

| /* Glibc versions <= 2.19: */ BSD_SOURCE | _SVID_SOURCE

RETURN VALUE

These functions return the absolute value of x.

If x is a NaN, a NaN is returned.

If x is -0, +0 is returned.

If *x* is negative infinity or positive infinity, positive infinity is returned.

ERRORS

No errors occur.

ATTRIBUTES

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

Interface	Attribute	Value
fabs(), fabsf(), fabsl()	Thread safety	MT-Safe

CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

The variant returning double also conforms to SVr4, 4.3BSD, C89.

SEE ALSO

```
abs(3), cabs(3), ceil(3), floor(3), labs(3), rint(3)
```

COLOPHON

This page is part of release 5.05 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/.

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