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: */ _DE-
FAULT_SOURCE || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

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

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 4.16 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/.