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
|| /* 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 5.02 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/.