



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'fabs.3'***

**C:\>man fabs.3**

FABS(3)                      Linux Programmer's Manual                      FABS(3)

### 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 5.05 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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FABS(3)