

NAME

`fmin`, `fminf`, `fminl` - determine minimum of two floating-point numbers

SYNOPSIS

```
#include <math.h>
```

```
double fmin(double x, double y);
```

```
float fminf(float x, float y);
```

```
long double fminl(long double x, long double y);
```

Link with `-lm`.

Feature Test Macro Requirements for glibc (see [feature_test_macros\(7\)](#)):

```
fmin(), fminf(), fminl():
```

```
  _XOPEN_SOURCE >= 600 || _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L;  
  or cc -std=c99
```

DESCRIPTION

These functions return the lesser value of x and y .

RETURN VALUE

These functions return the minimum of x and y .

If one argument is a NaN, the other argument is returned.

If both arguments are NaN, a NaN is returned.

ERRORS

No errors occur.

VERSIONS

These functions first appeared in glibc in version 2.1.

ATTRIBUTES

Multithreading (see [pthreads\(7\)](#))

The `fmin()`, `fminf()`, and `fminl()` functions are thread-safe.

CONFORMING TO

C99, POSIX.1-2001.

SEE ALSO

[fmax\(3\)](#)

COLOPHON

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.