

**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():
```

```
    _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

**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**

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

Interface	Attribute	Value
<code>fmin()</code> , <code>fminf()</code> , <code>fminl()</code>	Thread safety	MT-Safe

**CONFORMING TO**

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

**SEE ALSO**

`fdim(3)`, `fmax(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/>.