

NAME

fmax, fmaxf, fmaxl – determine maximum of two floating-point numbers

LIBRARY

Math library (*libm*, *-lm*)

SYNOPSIS

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

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

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

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

Feature Test Macro Requirements for glibc (see **feature_test_macros(7)**):

```
fmax(), fmaxf(), fmaxl():
```

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

DESCRIPTION

These functions return the larger value of *x* and *y*.

RETURN VALUE

These functions return the maximum 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 were added in glibc 2.1.

ATTRIBUTES

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

Interface	Attribute	Value
fmax() , fmaxf() , fmaxl()	Thread safety	MT-Safe

STANDARDS

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

SEE ALSO

fdim(3), **fmin(3)**