NAME

fmax, **fmaxf**, **fmaxl**, **fmin**, **fminf**, **fminl** - floating-point maximum and minimum functions

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*);

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

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

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

DESCRIPTION

The **fmax**(), **fmaxf**(), and **fmaxl**() functions return the larger of *x* and *y*, and likewise, the **fmin**(), **fminf**(), and **fminl**() functions return the smaller of *x* and *y*. They treat +0.0 as being larger than -0.0. If one argument is an NaN, then the other argument is returned. If both arguments are NaNs, then the result is an NaN. These routines do not raise any floating-point exceptions.

SEE ALSO

fabs(3), fdim(3), math(3)

STANDARDS

The **fmax**(), **fmaxf**(), **fmaxl**(), **fmin**(), **fminf**(), and **fminl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").

HISTORY

These routines first appeared in FreeBSD 5.3.