NAME

fdim, **fdimf**, **fdiml** - positive difference functions

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

#include <math.h>

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

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

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

DESCRIPTION

The **fdim**(), **fdimf**(), and **fdiml**() functions return the positive difference between *x* and *y*. That is, if *x*-*y* is positive, then *x*-*y* is returned. If either *x* or *y* is an NaN, then an NaN is returned. Otherwise, the result is +0.0.

Overflow or underflow may occur if the exact result is not representable in the return type. No other exceptions are raised.

SEE ALSO

fabs(3), fmax(3), fmin(3), math(3)

STANDARDS

The **fdim**(), **fdimf**(), and **fdiml**() functions conform to ISO/IEC 9899:1999 ("ISO C99").

HISTORY

These routines first appeared in FreeBSD 5.3.