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.