

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.