NAME
> fdim, fdimf, fdiml – positive difference

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***);**

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

> **fdimf**(), **fdiml**():
> > _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

DESCRIPTION
> These functions return the positive difference, max(*x-y*,0), between their arguments.

RETURN VALUE
> On success, these functions return the positive difference.

> If *x* or *y* is a NaN, a NaN is returned.

> If the result overflows, a range error occurs, and the functions return **HUGE_VAL**, **HUGE_VALF**, or **HUGE_VALL**, respectively.

ERRORS
> See **math_error**(7) for information on how to determine whether an error has occurred when calling these functions.

> The following errors can occur:

> Range error: result overflow
> > *errno* is set to **ERANGE**. An overflow floating-point exception (**FE_OVERFLOW**) is raised.

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
fdim(), **fdimf**(), **fdiml**()	Thread safety	MT-Safe

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

BUGS
> Before glibc 2.24 on certain architectures (e.g., x86, but not x86_64) these functions did not set *errno*.

SEE ALSO
> **fmax**(3)