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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'fdim.3' command

\$ man fdim.3

FDIM(3) Linux Programmer's Manual FDIM(3)

NAME

fdim, fdimf, fdiml - positive difference

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);
```

Link with -lm.

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 first appeared in glibc in version 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 ?

??

CONFORMING TO

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

BUGS

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

SEE ALSO

fmax(3)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

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