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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'fdiml.3'***

#### ***\$ man fdiml.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/>.