Rocky Enterprise Linux 9.2 Manual Pages on command 'fmodf.3'

$ man fmodf.3

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

NAME

   fmod, fmodf, fmodl - floating-point remainder function

SYNOPSIS

   #include <math.h>

   double fmod(double x, double y);

   float fmodf(float x, float y);

   long double fmodl(long double x, long double y);

   Link with -lm.

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

   fmodf(), fmodl():

      _ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

         || /* Since glibc 2.19: */ _DEFAULT_SOURCE

         || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

DESCRIPTION

   These functions compute the floating-point remainder of dividing x by y. The return value

   is x - n * y, where n is the quotient of x / y, rounded toward zero to an integer.

RETURN VALUE

   On success, these functions return the value x - n*y, for some integer n, such that the

   returned value has the same sign as x and a magnitude less than the magnitude of y.

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

   If x is an infinity, a domain error occurs, and a NaN is returned.

   If y is zero, a domain error occurs, and a NaN is returned.

If x is +0 (-0), and y is not zero, +0 (-0) is returned.

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:

Domain error: x is an infinity

errno is set to EDOM (but see BUGS). An invalid floating-point exception (FE_IN?

VALID) is raised.

Domain error: y is zero

errno is set to EDOM. An invalid floating-point exception (FE_INVALID) is raised.

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

???

?Interface   ? Attribute   ? Value   ?

???

?fmod(), fmodf(), fmodl() ? Thread safety ? MT-Safe ?

???

CONFORMING TO

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

The variant returning double also conforms to SVr4, 4.3BSD, C89.

BUGS

Before version 2.10, the glibc implementation did not set errno to EDOM when a domain er?

ror occurred for an infinite x.

SEE ALSO

remainder(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/.