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## *Red Hat Enterprise Linux Release 9.2 Manual Pages on 'modfl.3' command*

***$ man modfl.3***

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

NAME

modf, modff, modfl - extract signed integral and fractional values from floating-point number

SYNOPSIS

```
#include <math.h>

double modf(double x, double *iptr);

float modff(float x, float *iptr);

long double modfl(long double x, long double *iptr);
```

Link with -lm.

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

modff(), modfl():

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
    || /* Since glibc 2.19: */ _DEFAULT_SOURCE
    || /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

These functions break the argument x into an integral part and a frac? tional part, each of which has the same sign as x. The integral part is stored in the location pointed to by iptr.

RETURN VALUE

These functions return the fractional part of x.

If x is a NaN, a NaN is returned, and *iptr is set to a NaN.

If x is positive infinity (negative infinity), +0 (-0) is returned, and

*iptr is set to positive infinity (negative infinity).

## ERRORS

No errors occur.

## ATTRIBUTES

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

??????????????????????????????????????????????????

?Interface ? Attribute ? Value ?

??????????????????????????????????????????????????

?modf(), modff(), modfl() ? Thread safety ? MT-Safe ?

??????????????????????????????????????????????????

## CONFORMING TO

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

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

## SEE ALSO

frexp(3), ldexp(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/.