



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

C:\>man modf.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)`):

modf(), 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 fractional 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 attributes(7).

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?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 5.05 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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