



Linux Ubuntu 26.04 Manual Pages on command 'modf.3'

\$ man modf.3

modf(3) Library Functions Manual modf(3)

NAME

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

ber

LIBRARY

Math library (libm, -lm)

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);
```

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 <= 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.

itive infinity (negative infinity).

No errors occur.

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

[illegible]

?	Interface	?	Attribute	?	Value	?
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[illegible]

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

C11, POSIX.1-2008.

C99, POSIX.1-2001.

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

```
frexp(3), ldexp(3)
```

Linux man-pages 6.17

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