

NAME

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

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

#include <math.h>

double

modf(*double value*, *double *iptr*);

float

modff(*float value*, *float *iptr*);

long double

modfl(*long double value*, *long double *iptr*);

DESCRIPTION

The **modf**(), **modff**(), and **modfl**() functions break the argument *value* into integral and fractional parts, each of which has the same sign as the argument. It stores the integral part as a floating point number in the object pointed to by *iptr*.

RETURN VALUES

These functions return the signed fractional part of *value*.

SEE ALSO

frexp(3), ldexp(3), math(3)

STANDARDS

The **modf**(), **modff**(), and **modfl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").