

NAME

fmod, **fmodf**, **fmodl** - floating-point remainder functions

LIBRARY

Math Library (libm, -lm)

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*);

DESCRIPTION

The **fmod**(), **fmodf**(), and **fmodl**() functions compute the floating-point remainder of x/y .

RETURN VALUES

If y is non-zero, the **fmod**(), **fmodf**(), and **fmodl**() functions return the value $x - i * y$, for some integer i , such that the result has the same sign as x and magnitude less than the magnitude of y . If y is zero, a NaN is produced.

SEE ALSO

math(3)

STANDARDS

The **fmod**(), **fmodf**(), and **fmodl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").

HISTORY

An **fmod**() function first appeared in Version 5 AT&T UNIX.