



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

\$ man remainderl.3

remainder(3) Library Functions Manual remainder(3)

NAME

drem, dremf, dremf, remainder, remainderf, remainderl - floating-point remainder function

LIBRARY

Math library (libm, -lm)

SYNOPSIS

```
#include <math.h>

double remainder(double x, double y);

float remainderf(float x, float y);

long double remainderl(long double x, long double y);

/* Obsolete synonyms */

[[deprecated]] double drem(double x, double y);

[[deprecated]] float dremf(float x, float y);

[[deprecated]] long double dremf(long double x, long double y);
```

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

remainder():

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
|| _XOPEN_SOURCE >= 500
|| /* Since glibc 2.19: */ _DEFAULT_SOURCE
|| /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

remainderf(), remainderl():

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
|| /* Since glibc 2.19: */ _DEFAULT_SOURCE
```


[illegible]

remainder()

remainderf()

remainderl()

C11, POSIX.1-2008.

drem()

```
dremf()
```

```
dreml()
```

None.

HISTORY

remainder()

remainderf()

remainderl()

C99, POSIX.1-2001.

drem() 4.3BSD.

dremf()

```
dreml()
```

Tru64, glibc2.

BUGS

Before glibc 2.15, the call

```
remainder(nan(""), 0);
```

returned a NaN, as expected, but wrongly caused a domain error. Since glibc 2.15, a silent NaN (i.e., no domain error) is returned.

Before glibc 2.15, errno was not set to EDOM for the domain error that occurs when x is an infinity and y is not a NaN.

EXAMPLES

The call "remainder(29.0, 3.0)" returns -1.

SEE ALSO

div(3), fmod(3), remquo(3)