



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

\$ man significandl.3

SIGNIFICAND(3) Linux Programmer's Manual SIGNIFICAND(3)

NAME

significand, significandf, significandl - get mantissa of floating-point number

SYNOPSIS

```
#include <math.h>
```

```
double significand(double x);
```

```
float significandf(float x);
```

```
long double significandl(long double x);
```

Link with -lm.

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

significand(), significandf(), significandl():

```
/* Since glibc 2.19: */ _DEFAULT_SOURCE
```

```
|| /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

These functions return the mantissa of x scaled to the range [1,2).

They are equivalent to

```
scalb(x, (double) -ilogb(x))
```

This function exists mainly for use in certain standardized tests for IEEE 754 conformance.

ATTRIBUTES

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

Interface	Attribute	Value
significand()	Thread safety	MT-Safe
significandf()		
significandl()		

CONFORMING TO

These functions are nonstandard; the double version is available on a number of other systems.

SEE ALSO

ilogb(3), scalb(3)

COLOPHON

This page is part of release 5.10 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/>.