

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(), significandf(), significandl()	Thread safety	MT-Safe

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 5.02 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/>.