

NAME

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

LIBRARY

Math library (*libm*, *-lm*)

SYNOPSIS

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

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

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

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

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

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

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

```
|| /* glibc <= 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

STANDARDS

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

SEE ALSO

ilogb(3), scalb(3)