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 4.16 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/.