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***Rocky Enterprise Linux 9.2 Manual Pages on command 'significant.3'***

***\$ man significant.3***

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

NAME

significant, significantf, significantl - get mantissa of floating-point number

SYNOPSIS

```
#include <math.h>

double significant(double x);

float significantf(float x);

long double significantl(long double x);

Link with -lm.
```

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

```
significant(), significantf(), significantl():

/* 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/>.