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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'significantl.3' command

\$ man significantl.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 ?

??

?significant(), ? Thread safety ? MT-Safe ?

?significantf(), ? ? ?

?significantl() ? ? ?

??

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/>.

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