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Rocky Enterprise Linux 9.2 Manual Pages on command 'log2.3'

\$ man log2.3

LOG2(3) Linux Programmer's Manual LOG2(3)

NAME

log2, log2f, log2l - base-2 logarithmic function

SYNOPSIS

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

```
double log2(double x);
```

```
float log2f(float x);
```

```
long double log2l(long double x);
```

Link with -lm.

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

```
log2(), log2f(), log2l():
```

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

DESCRIPTION

These functions return the base 2 logarithm of x.

RETURN VALUE

On success, these functions return the base 2 logarithm of x.

For special cases, including where x is 0, 1, negative, infinity, or

NaN, see log(3).

ERRORS

See `math_error(7)` for information on how to determine whether an error has occurred when calling these functions.

For a discussion of the errors that can occur for these functions, see `log(3)`.

VERSIONS

These functions first appeared in `glibc` in version 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

??

?Interface ? Attribute ? Value ?

??

?`log2()`, `log2f()`, `log2l()` ? Thread safety ? MT-Safe ?

??

CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

The variant returning `double` also conforms to SVr4, 4.3BSD.

SEE ALSO

`cbirt(3)`, `clog2(3)`, `log(3)`, `log10(3)`, `sqrt(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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