



### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'log2l.3'***

#### ***\$ man log2l.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

`cbrt(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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LOG2(3)