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 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/.

2017-09-15