

NAME

log10, log10f, log10l - base-10 logarithmic function

SYNOPSIS

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

```
double log10(double x);
```

```
float log10f(float x);
```

```
long double log10l(long double x);
```

Link with *-lm*.

Feature Test Macro Requirements for glibc (see [feature_test_macros\(7\)](#)):

```
log10f(), log10l():
```

```
  _BSD_SOURCE || _SVID_SOURCE || _XOPEN_SOURCE >= 600 || _ISOC99_SOURCE ||
```

```
  _POSIX_C_SOURCE >= 200112L;
```

```
  or cc -std=c99
```

DESCRIPTION

The `log10()` function returns the base 10 logarithm of *x*.

RETURN VALUE

On success, these functions return the base 10 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\(3\)](#).

CONFORMING TO

C99, POSIX.1-2001. The variant returning *double* also conforms to SVr4, 4.3BSD, C89.

SEE ALSO

[cbrt\(3\)](#), [clog10\(3\)](#), [exp10\(3\)](#), [log\(3\)](#), [log2\(3\)](#), [sqrt\(3\)](#)

COLOPHON

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.