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():
```

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L || /* Since glibc 2.19: */ _DEFAULT_SOURCE || _SVID_SOURCE || _SVID_SOURCE
```

DESCRIPTION

These functions return 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).

ATTRIBUTES

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

| Interface | Attribute | Value |
|-----------------------------|---------------|---------|
| log10(), log10f(), log10l() | Thread safety | MT-Safe |

CONFORMING TO

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

The variant returning *double* also conforms to SVr4, 4.3BSD, C89.

SEE ALSO

```
\boldsymbol{cbrt}(3), \boldsymbol{clog10}(3), \boldsymbol{exp10}(3), \boldsymbol{log}(3), \boldsymbol{log2}(3), \boldsymbol{sqrt}(3)
```

COLOPHON

This page is part of release 5.05 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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