

NAME

clog10, clog10f, clog10l – base-10 logarithm of a complex number

LIBRARY

Math library (*libm*, *-lm*)

SYNOPSIS

```
#define _GNU_SOURCE      /* See feature_test_macros(7) */
#include <complex.h>

double complex clog10(double complex z);
float complex clog10f(float complex z);
long double complex clog10l(long double complex z);
```

DESCRIPTION

The call *clog10(z)* is equivalent to:

$$\text{clog}(z) / \log(10)$$

or equally:

$$\log_{10}(\text{cabs}(c)) + \text{I} * \text{carg}(c) / \log(10)$$

The other functions perform the same task for *float* and *long double*.

Note that *z* close to zero will cause an overflow.

VERSIONS

These functions first appeared in glibc 2.1.

ATTRIBUTES

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

Interface	Attribute	Value
clog10() , clog10f() , clog10l()	Thread safety	MT-Safe

STANDARDS

These functions are GNU extensions. The identifiers are reserved for future use in C99 and C11.

SEE ALSO

cabs(3), **cexp(3)**, **clog(3)**, **clog2(3)**, **complex(7)**