



Linux Ubuntu 26.04 Manual Pages on command 'ccosh.3'

\$ man ccosh.3

ccosh(3) Library Functions Manual ccosh(3)

NAME

ccosh, ccoshf, ccoshl - complex hyperbolic cosine

LIBRARY

Math library (libm, -lm)

SYNOPSIS

```
#include <complex.h>

double complex ccosh(double complex z);

float complex ccoshf(float complex z);

long double complex ccoshl(long double complex z);
```

DESCRIPTION

These functions calculate the complex hyperbolic cosine of z .

The complex hyperbolic cosine function is defined as:

$$\text{ccosh}(z) = (\exp(z) + \exp(-z))/2$$

STANDARDS

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

SEE ALSO

cabs(3), cacosh(3), csinh(3), ctanh(3), complex(7)