NAME

ccosh, ccoshf, ccoshl − complex hyperbolic cosine

SYNOPSIS

#include <complex.h>

double complex ccosh(double complex *z***);**
float complex ccoshf(float complex *z***);**
long double complex ccoshl(long double complex *z***);**

Link with *−lm*.

DESCRIPTION

These functions calculate the complex hyperbolic cosine of *z*.

The complex hyperbolic cosine function is defined as:

ccosh(z) = (exp(z)+exp(−z))/2

VERSIONS

These functions first appeared in glibc in version 2.1.

CONFORMING TO

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

SEE ALSO

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

COLOPHON

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