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 coshl(long double complex z);

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 were added in glibc 2.1.

STANDARDS

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

SEE ALSO

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