

Returns Complex arc tangent of z , with branch cuts outside the interval $[-i, +i]$ along the imaginary axis. The return value lies in a strip mathematically unbounded along the imaginary axis and in the interval $[-\pi/2, +\pi/2]$ along the real axis. 27.4

catanh *Complex Arc Hyperbolic Tangent (C99)* <complex.h>

`double complex catanh(double complex z);`
catanhf `float complex catanhf(float complex z);`
catanhl `long double complex catanhl(long double complex z);`

Returns Complex arc hyperbolic tangent of z , with branch cuts outside the interval $[-1, +1]$ along the real axis. The return value lies in a strip mathematically unbounded along the real axis and in the interval $[-i\pi/2, +i\pi/2]$ along the imaginary axis. 27.4

cbrt *Cube Root (C99)* <math.h>

`double cbrt(double x);`
cbrtf `float cbrtf(float x);`
cbRTL `long double cbRTL(long double x);`

Returns Real cube root of x . 23.4

ccos *Complex Cosine (C99)* <complex.h>

`double complex ccos(double complex z);`
ccosf `float complex ccosf(float complex z);`
ccosl `long double complex ccosl(long double complex z);`

Returns Complex cosine of z . 27.4

ccosh *Complex Hyperbolic Cosine (C99)* <complex.h>

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

Returns Complex hyperbolic cosine of z . 27.4

ceil *Ceiling* <math.h>

`double ceil(double x);`
ceilf `float ceilf(float x);`
ceill `long double ceill(long double x);`

Returns Smallest integer that is greater than or equal to x . 23.3

cexp *Complex Base- e Exponential (C99)* <complex.h>

`double complex cexp(double complex z);`
cexpf `float complex cexpf(float complex z);`
cexpl `long double complex cexpl(long double complex z);`

Returns Complex base- e exponential of z . 27.4

cimag *Imaginary Part of Complex Number (C99)* <complex.h>

`double cimag(double complex z);`