

coshl `long double coshl(long double x);`
Returns Hyperbolic cosine of x. A range error occurs if the magnitude of x is too large.
23.3

cpow *Complex Power (C99)* <complex.h>
`double complex cpow(double complex x,
double complex y);`
cpowf `float complex cpowf(float complex x,
float complex y);`
cpowl `long double complex cpowl(long double complex x,
long double complex y);`
Returns x raised to the power y, with a branch cut for the first parameter along the negative real axis.
27.4

cproj *Complex Projection (C99)* <complex.h>
`double complex cproj(double complex z);`
cprojf `float complex cprojf(float complex z);`
cprojl `long double complex cprojl(long double complex z);`
Returns Projection of z onto the Riemann sphere. z is returned unless one of its parts is infinite, in which case the return value is INFINITY + I * copysign(0.0, cimag(z)).
27.4

creal *Real Part of Complex Number (C99)* <complex.h>
`double creal(double complex z);`
crealf `float crealf(float complex z);`
creall `long double creall(long double complex z);`
Returns Real part of z.
27.4

csin *Complex Sine (C99)* <complex.h>
`double complex csin(double complex z);`
csinf `float complex csinf(float complex z);`
csinl `long double complex csinl(long double complex z);`
Returns Complex sine of z.
27.4

csinh *Complex Hyperbolic Sine (C99)* <complex.h>
`double complex csinh(double complex z);`
csinhf `float complex csinhf(float complex z);`
csinhl `long double complex csinhl(long double complex z);`
Returns Complex hyperbolic sine of z.
27.4

csqrt *Complex Square Root (C99)* <complex.h>
`double complex csqrt(double complex z);`
csqrtf `float complex csqrtf(float complex z);`
csqrtl `long double complex csqrtl(long double complex z);`