

a strip mathematically unbounded along the real axis and in the interval $[-i\pi/2, +i\pi/2]$ along the imaginary axis.

ccosh The `ccosh` function computes the complex hyperbolic cosine, the `csinh`
csinh function computes the complex hyperbolic sine, and the `ctanh` function com-
ctanh putes the complex hyperbolic tangent.

Exponential and Logarithmic Functions

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

double complex clog(double complex z);
float complex clogf(float complex z);
long double complex clogl(long double complex z);
```

cexp The `cexp` function computes the complex base- e exponential value.
clog The `clog` function computes the complex natural (base- e) logarithm, with a
branch cut along the negative real axis. The return value lies in a strip mathemati-
cally unbounded along the real axis and in the interval $[-i\pi, +i\pi]$ along the imagi-
nary axis.

Power and Absolute-Value Functions

```
double cabs(double complex z);
float cabsf(float complex z);
long double cabsl(long double complex z);

double complex cpow(double complex x,
                    double complex y);
float complex cpowf(float complex x,
                    float complex y);
long double complex cpowl(long double complex x,
                           long double complex y);

double complex csqrt(double complex z);
float complex csqrtf(float complex z);
long double complex csqrtl(long double complex z);
```

cabs The `cabs` function computes the complex absolute value.
cpow The `cpow` function returns x raised to the power y , with a branch cut for the
first parameter along the negative real axis.
csqrt The `csqrt` function computes the complex square root, with a branch cut
along the negative real axis. The return value lies in the right half-plane (including
the imaginary axis).