

<b><i>cacosh</i></b>	<i>Complex Arc Hyperbolic Cosine (C99)</i>	<i>&lt;complex.h&gt;</i>
	<code>double complex cacosh(double complex z);</code>	
<b><i>cacoshf</i></b>	<code>float complex cacoshf(float complex z);</code>	
<b><i>cacoshl</i></b>	<code>long double complex cacoshl(long double complex z);</code>	
<b>Returns</b>	Complex arc hyperbolic cosine of $z$ , with a branch cut at values less than 1 along the real axis. The return value lies in a half-strip of nonnegative values along the real axis and in the interval $[-i\pi, +i\pi]$ along the imaginary axis. 27.4	
<b><i>calloc</i></b>	<i>Allocate and Clear Memory Block</i>	<i>&lt;stdlib.h&gt;</i>
	<code>void *calloc(size_t nmemb, size_t size);</code>	
	Allocates a block of memory for an array with <code>nmemb</code> elements, each with <code>size</code> bytes. The block is cleared by setting all bits to zero.	
<b>Returns</b>	A pointer to the beginning of the block. Returns a null pointer if a block of the requested size can't be allocated. 17.3	
<b><i>carg</i></b>	<i>Complex Argument (C99)</i>	<i>&lt;complex.h&gt;</i>
	<code>double carg(double complex z);</code>	
<b><i>cargf</i></b>	<code>float cargf(float complex z);</code>	
<b><i>cargl</i></b>	<code>long double cargl(long double complex z);</code>	
<b>Returns</b>	Argument (phase angle) of $z$ , with a branch cut along the negative real axis. The return value lies in the interval $[-\pi, +\pi]$ . 27.4	
<b><i>casin</i></b>	<i>Complex Arc Sine (C99)</i>	<i>&lt;complex.h&gt;</i>
	<code>double complex casin(double complex z);</code>	
<b><i>casinf</i></b>	<code>float complex casinf(float complex z);</code>	
<b><i>casinl</i></b>	<code>long double complex casinl(long double complex z);</code>	
<b>Returns</b>	Complex arc sine 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 imaginary axis and in the interval $[-\pi/2, +\pi/2]$ along the real axis. 27.4	
<b><i>casinh</i></b>	<i>Complex Arc Hyperbolic Sine (C99)</i>	<i>&lt;complex.h&gt;</i>
	<code>double complex casinh(double complex z);</code>	
<b><i>casinhf</i></b>	<code>float complex casinhf(float complex z);</code>	
<b><i>casinhl</i></b>	<code>long double complex casinhl(long double complex z);</code>	
<b>Returns</b>	Complex arc hyperbolic sine 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 real axis and in the interval $[-i\pi/2, +i\pi/2]$ along the imaginary axis. 27.4	
<b><i>catan</i></b>	<i>Complex Arc Tangent (C99)</i>	<i>&lt;complex.h&gt;</i>
	<code>double complex catan(double complex z);</code>	
<b><i>catanf</i></b>	<code>float complex catanf(float complex z);</code>	
<b><i>catanl</i></b>	<code>long double complex catanl(long double complex z);</code>	