

NAME

ctan, ctanf, ctanl – complex tangent function

LIBRARY

Math library (*libm*, *-lm*)

SYNOPSIS

#include <complex.h>

double complex ctan(double complex z);

float complex ctanf(float complex z);

long double complex ctanl(long double complex z);

DESCRIPTION

These functions calculate the complex tangent of *z*.

The complex tangent function is defined as:

$$\text{ctan}(z) = \text{csin}(z) / \text{ccos}(z)$$

ATTRIBUTES

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
ctan(), ctanf(), ctanl()	Thread safety	MT-Safe

STANDARDS

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

SEE ALSO

[cabs\(3\)](#), [catan\(3\)](#), [ccos\(3\)](#), [csin\(3\)](#), [complex\(7\)](#)