

NAME

`ctan`, `ctanf`, `ctanl` – complex tangent function

SYNOPSIS

```
#include <complex.h>
double complex ctan(double complex z);
float complex ctanf(float complex z);
long double complex ctanl(long double complex z);
```

Link with `-lm`.

DESCRIPTION

These functions calculate the complex tangent of z .

The complex tangent function is defined as:

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

VERSIONS

These functions first appeared in glibc in version 2.1.

ATTRIBUTES

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

Interface	Attribute	Value
<code>ctan()</code> , <code>ctanf()</code> , <code>ctanl()</code>	Thread safety	MT-Safe

CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

SEE ALSO

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

COLOPHON

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