

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:

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

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
ctan() , ctanf() , ctanl()	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

This page is part of release 5.02 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.