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***Rocky Enterprise Linux 9.2 Manual Pages on command 'ctanf.3'***

**\$ man ctanf.3**

CTAN(3)                      Linux Programmer's Manual                      CTAN(3)

**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    ?

??

?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 5.10 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/>.

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