

**NAME**

**tan**, **tanf**, **tanl** - tangent functions

**LIBRARY**

Math Library (libm, -lm)

**SYNOPSIS**

**#include** <math.h>

*double*

**tan**(*double x*);

*float*

**tanf**(*float x*);

*long double*

**tanl**(*long double x*);

**DESCRIPTION**

The **tan()**, **tanf()**, and **tanl()** functions compute the tangent of  $x$  (measured in radians). A large magnitude argument may yield a result with little or no significance. For a discussion of error due to roundoff, see [math\(3\)](#).

**RETURN VALUES**

The **tan()**, **tanf()**, and **tanl()** functions return the tangent value.

**SEE ALSO**

[acos\(3\)](#), [asin\(3\)](#), [atan\(3\)](#), [atan2\(3\)](#), [cos\(3\)](#), [cosh\(3\)](#), [ctan\(3\)](#), [math\(3\)](#), [sin\(3\)](#), [sinh\(3\)](#), [tanh\(3\)](#)

**STANDARDS**

These functions conform to ISO/IEC 9899:1999 ("ISO C99").