NAME
atan, **atanf**, **atanl** - arc tangent functions of one variable

LIBRARY
Math Library (libm, -lm)

SYNOPSIS
#include <math.h>

double
atan(*double x*);

float
atanf(*float x*);

long double
atanl(*long double x*);

DESCRIPTION
The **atan**(), **atanf**(), and **atanl**() functions compute the principal value of the arc tangent of *x*.

RETURN VALUES
These functions return the arc tangent in the range [-pi/2, +pi/2] radians.

SEE ALSO
acos(3), asin(3), atan2(3), cos(3), cosh(3), math(3), sin(3), sinh(3), tan(3), tanh(3)

STANDARDS
The **atan**(), **atanf**(), and **atanl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").