NAME
erf, **erff**, **erfl**, **erfc**, **erfcf**, **erfcl** - error function operators

LIBRARY
Math Library (libm, -lm)

SYNOPSIS
#include <math.h>

double
erf(*double x*);

float
erff(*float x*);

long double
erfl(*long double x*);

double
erfc(*double x*);

float
erfcf(*float x*);

long double
erfcl(*long double x*);

DESCRIPTION
These functions calculate the error function of *x*.

The **erf**(), **erff**(), and **erfl**() functions calculate the error function of x; where

erf(x) = 2/sqrt(pi)*integral from 0 to x of exp(-t*t) dt.

The **erfc**(), **erfcf**(), and **erfcl**() functions calculate the complementary error function of *x*; that is **erfc**() subtracts the result of the error function **erf**(*x*) from 1.0.

SEE ALSO
math(3)

STANDARDS

The **erf**(), **erff**(), **erfl**(), **erfc**(), **erfcf**() and **erfcl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").

HISTORY

The **erf**() and **erfc**() functions appeared in 4.3BSD.