

NAME

trunc, **truncf**, **truncl** - nearest integral value with magnitude less than or equal to $|x|$

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

#include <math.h>

double

trunc(*double x*);

float

truncf(*float x*);

long double

truncl(*long double x*);

DESCRIPTION

The **trunc()**, **truncf()**, and **truncl()** functions return the nearest integral value with magnitude less than or equal to $|x|$. They are equivalent to **rint()**, **rintf()**, and **rintl()**, respectively, in the FE_TOWARDZERO rounding mode.

SEE ALSO

ceil(3), fesetround(3), floor(3), math(3), nextafter(3), rint(3), round(3)

STANDARDS

The **trunc()**, **truncf()**, and **truncl()** functions conform to ISO/IEC 9899:1999 ("ISO C99").

HISTORY

These routines first appeared in FreeBSD 5.3.