

NAME

floor, **floorf**, **floorl** - largest integral value less than or equal to x

LIBRARY

Math Library (libm, -lm)

SYNOPSIS

```
#include <math.h>
```

double

```
floor(double  $x$ );
```

float

```
floorf(float  $x$ );
```

long double

```
floorl(long double  $x$ );
```

DESCRIPTION

The **floor**(), **floorf**() and **floorl**() functions return the largest integral value less than or equal to x , expressed as a floating-point number.

SEE ALSO

abs(3), ceil(3), fabs(3), ieee(3), math(3), rint(3), round(3), trunc(3)

STANDARDS

The **floor**() function conforms to ISO/IEC 9899:1990 ("ISO C90"). The **floorf**() and **floorl**() functions conform to ISO/IEC 9899:1999 ("ISO C99").

HISTORY

A **floor**() function first appeared in Version 5 AT&T UNIX.