

**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.