

**NAME**

**cos**, **cosf**, **cosl** - cosine functions

**LIBRARY**

Math Library (libm, -lm)

**SYNOPSIS**

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

*double*

```
cos(double x);
```

*float*

```
cosf(float x);
```

*long double*

```
cosl(long double x);
```

**DESCRIPTION**

The **cos()**, **cosf()**, and **cosl()** functions compute the cosine of  $x$  (measured in radians). A large magnitude argument may yield a result with little or no significance. For a discussion of error due to roundoff, see [math\(3\)](#).

**RETURN VALUES**

The **cos()**, **cosf()**, and **cosl()** functions return the cosine value.

**SEE ALSO**

[acos\(3\)](#), [asin\(3\)](#), [atan\(3\)](#), [atan2\(3\)](#), [ccos\(3\)](#), [cosh\(3\)](#), [math\(3\)](#), [sin\(3\)](#), [sinh\(3\)](#), [tan\(3\)](#), [tanh\(3\)](#)

**STANDARDS**

These functions conform to ISO/IEC 9899:1999 ("ISO C99").

**HISTORY**

The **cos()** function first appeared in Version 1 AT&T UNIX.