NAME

```
ecvt, fcvt - convert a floating-point number to a string
```

SYNOPSIS

```
#include <stdlib.h>
char *ecvt(double number, int ndigits, int *decpt, int *sign);
char *fcvt(double number, int ndigits, int *decpt, int *sign);

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

ecvt(), fcvt():
Since glibc 2.12:
_SVID_SOURCE ||
    (_XOPEN_SOURCE >= 500 ||
    _XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED) &&
    !(_POSIX_C_SOURCE >= 200112L || _XOPEN_SOURCE >= 600)

Before glibc 2.12:
_SVID_SOURCE || _XOPEN_SOURCE >= 500 ||
    XOPEN_SOURCE && _XOPEN_SOURCE EXTENDED
```

DESCRIPTION

The **ecvt**() function converts number to a null-terminated string of ndigits digits (where ndigits is reduced to a system-specific limit determined by the precision of a double), and returns a pointer to the string. The high-order digit is nonzero, unless number is zero. The low order digit is rounded. The string itself does not contain a decimal point; however, the position of the decimal point relative to the start of the string is stored in *decpt. A negative value for *decpt means that the decimal point is to the left of the start of the string. If the sign of number is negative, *sign is set to a nonzero value, otherwise it is set to 0. If number is zero, it is unspecified whether *decpt is 0 or 1.

The fcvt() function is identical to ecvt(), except that ndigits specifies the number of digits after the decimal point.

RETURN VALUE

Both the $\mathbf{ecvt}()$ and $\mathbf{fcvt}()$ functions return a pointer to a static string containing the ASCII representation of *number*. The static string is overwritten by each call to $\mathbf{ecvt}()$ or $\mathbf{fcvt}()$.

ATTRIBUTES

```
Multithreading (see pthreads(7))
```

The **ecvt**() and **fcvt**() functions are not thread-safe.

CONFORMING TO

SVr2; marked as LEGACY in POSIX.1-2001. POSIX.1-2008 removes the specifications of **ecvt**() and **fcvt**(), recommending the use of sprintf(3) instead (though snprintf(3) may be preferable).

NOTES

Not all locales use a point as the radix character (decimal point).

SEE ALSO

```
\operatorname{ecvt}_{r}(3), \operatorname{gcvt}(3), \operatorname{qecvt}(3), \operatorname{setlocale}(3), \operatorname{sprintf}(3)
```

COLOPHON

This page is part of release 3.74 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at http://www.kernel.org/doc/man-pages/.

2014-08-19