Rocky Enterprise Linux 9.2 Manual Pages on command 'ecvt.3'

$ man ecvt.3

ECVT(3)   Linux Programmer's Manual   ECVT(3)

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:

         (_XOPEN_SOURCE >= 500) ! (_POSIX_C_SOURCE >= 200112L)

            || /* Glibc since 2.19: */ _DEFAULT_SOURCE

            || /* Glibc versions <= 2.19: */ _SVID_SOURCE

      Before glibc 2.12:

         _SVID_SOURCE || _XOPEN_SOURCE >= 500

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 ecvt() and fcvt() functions return a pointer to a static string containing the
ASCII representation of number. The static string is overwritten by each call to ecvt()
or fcvt().

ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

???
?Interface ? Attribute   ? Value   ?
???
?ecvt()   ? Thread safety ? MT-Unsafe race:ecvt ?
???
?fcvt()   ? Thread safety ? MT-Unsafe race:fcvt ?
???

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 prefer?
able).

NOTES

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

SEE ALSO

ecvt_r(3), gcvt(3), qecvt(3), setlocale(3), sprintf(3)

COLOPHON

This page is part of release 5.10 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 https://www.kernel.org/doc/man-pages/.