

NAME

`ecvt_r`, `fcvt_r`, `qecvt_r`, `qfcvt_r` – convert a floating-point number to a string

SYNOPSIS

```
#include <stdlib.h>

int ecvt_r(double number, int ndigits, int *decpt,
           int *sign, char *buf, size_t len);

int fcvt_r(double number, int ndigits, int *decpt,
           int *sign, char *buf, size_t len);

int qecvt_r(long double number, int ndigits, int *decpt,
            int *sign, char *buf, size_t len);

int qfcvt_r(long double number, int ndigits, int *decpt,
            int *sign, char *buf, size_t len);
```

Feature Test Macro Requirements for glibc (see [feature_test_macros\(7\)](#)):

```
ecvt_r(), fcvt_r(), qecvt_r(), qfcvt_r():
/* Glibc since 2.19: */ _DEFAULT_SOURCE || /* Glibc versions <= 2.19: */ _SVID_SOURCE ||
_BSD_SOURCE
```

DESCRIPTION

The functions `ecvt_r()`, `fcvt_r()`, `qecvt_r()`, and `qfcvt_r()` are identical to [ecvt\(3\)](#), [fcvt\(3\)](#), [qecvt\(3\)](#), and [qfcvt\(3\)](#), respectively, except that they do not return their result in a static buffer, but instead use the supplied `buf` of size `len`. See [ecvt\(3\)](#) and [qecvt\(3\)](#).

RETURN VALUE

These functions return 0 on success, and `-1` otherwise.

ATTRIBUTES

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

Interface	Attribute	Value
<code>ecvt_r()</code> , <code>fcvt_r()</code> , <code>qecvt_r()</code> , <code>qfcvt_r()</code>	Thread safety	MT-Safe

CONFORMING TO

These functions are GNU extensions.

NOTES

These functions are obsolete. Instead, [sprintf\(3\)](#) is recommended.

SEE ALSO

[ecvt\(3\)](#), [qecvt\(3\)](#), [sprintf\(3\)](#)

COLOPHON

This page is part of release 4.16 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/>.