

NAME

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

LIBRARY

Standard C library (*libc*, *-lc*)

SYNOPSIS

```
#include <stdlib.h>
```

```
[[deprecated]] int ecvt_r(double number, int ndigits,
                          int *restrict decpt, int *restrict sign,
                          char *restrict buf, size_t len);
[[deprecated]] int fcvt_r(double number, int ndigits,
                          int *restrict decpt, int *restrict sign,
                          char *restrict buf, size_t len);
[[deprecated]] int qecvt_r(long double number, int ndigits,
                          int *restrict decpt, int *restrict sign,
                          char *restrict buf, size_t len);
[[deprecated]] int qfcvt_r(long double number, int ndigits,
                          int *restrict decpt, int *restrict sign,
                          char *restrict buf, size_t len);
```

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

```
ecvt_r(), fcvt_r(), qecvt_r(), qfcvt_r():
/* glibc >= 2.19: */ _DEFAULT_SOURCE
|| /* glibc <= 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
ecvt_r() , fcvt_r() , qecvt_r() , qfcvt_r()	Thread safety	MT-Safe

STANDARDS

These functions are GNU extensions.

NOTES

These functions are obsolete. Instead, **sprintf(3)** is recommended.

SEE ALSO

ecvt(3), **qecvt(3)**, **sprintf(3)**