

**NAME**

**printf\_l, asprintf\_l, fprintf\_l, snprintf\_l, sprintf\_l, vasprintf\_l, vfprintf\_l, vprintf\_l, vsnprintf\_l, vsprintf\_l**  
- formatted output conversion

**LIBRARY**

Standard C Library (libc, -lc)

**SYNOPSIS**

**#include <stdio.h>**

**#include <xlocale.h>**

*int*

**printf\_l**(*locale\_t loc, const char \* restrict format, ...*);

*int*

**asprintf\_l**(*char \*\*ret, locale\_t loc, const char \* format, ...*);

*int*

**fprintf\_l**(*FILE \* restrict stream, locale\_t loc, const char \* restrict format, ...*);

*int*

**snprintf\_l**(*char \* restrict str, size\_t size, locale\_t loc, const char \* restrict format, ...*);

*int*

**sprintf\_l**(*char \* restrict str, locale\_t loc, const char \* restrict format, ...*);

*int*

**vasprintf\_l**(*char \*\*ret, locale\_t loc, const char \*format, va\_list ap*);

*int*

**vfprintf\_l**(*FILE \* restrict stream, locale\_t loc, const char \* restrict format, va\_list ap*);

*int*

**vprintf\_l**(*locale\_t loc, const char \* restrict format, va\_list ap*);

*int*

**vsnprintf\_l**(*char \* restrict str, size\_t size, locale\_t loc, const char \* restrict format, va\_list ap*);

*int*

**vsprintf\_l**(*char \* restrict str, locale\_t loc, const char \* restrict format, va\_list ap*);

**DESCRIPTION**

The above functions are used to convert formatted output in the locale *loc*. They behave in the same way as the versions without the `_l` suffix, but use the specified locale rather than the global or per-thread locale. See the specific manual pages for more information.

**SEE ALSO**

`printf(3)`, `xlocale(3)`

**STANDARDS**

These functions do not conform to any specific standard so they should be considered as non-portable local extensions.

**HISTORY**

These functions first appeared in Darwin and were first implemented in FreeBSD 9.1.