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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'wcsxfrm.3p' command

\$ man wcsxfrm.3p

WCSXFRM(3P) POSIX Programmer's Manual WCSXFRM(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

wcsxfrm, wcsxfrm_l ? wide-character string transformation

SYNOPSIS

```
#include <wchar.h>

size_t wcsxfrm(wchar_t *restrict ws1, const wchar_t *restrict ws2,
               size_t n);

size_t wcsxfrm_l(wchar_t *restrict ws1, const wchar_t *restrict ws2,
                 size_t n, locale_t locale);
```

DESCRIPTION

For `wcsxfrm()`: The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

The `wcsxfrm()` and `wcsxfrm_l()` functions shall transform the wide-character string pointed to by `ws2` and place the resulting wide-character string into the array pointed to by `ws1`. The transformation shall be such that if `wcscmp()` is applied to two transformed wide strings, it

shall return a value greater than, equal to, or less than 0, corresponding to the result of `wscoll()` and `wscoll_l()` applied to the same two original wide-character strings, and the same `LC_COLLATE` category of the current locale or the locale object `locale`, respectively. No more than `n` wide-character codes shall be placed into the resulting array pointed to by `ws1`, including the terminating null wide-character code. If `n` is 0, `ws1` is permitted to be a null pointer. If copying takes place between objects that overlap, the behavior is undefined. The `wcsxfrm()` and `wcsxfrm_l()` functions shall not change the setting of `errno` if successful.

Since no return value is reserved to indicate an error, an application wishing to check for error situations should set `errno` to 0, then call `wcsxfrm()` or `wcsxfrm_l()`, then check `errno`.

The behavior is undefined if the locale argument to `wcsxfrm_l()` is the special locale object `LC_GLOBAL_LOCALE` or is not a valid locale object handle.

RETURN VALUE

The `wcsxfrm()` and `wcsxfrm_l()` functions shall return the length of the transformed wide-character string (not including the terminating null wide-character code). If the value returned is `n` or more, the contents of the array pointed to by `ws1` are unspecified.

On error, the `wcsxfrm()` and `wcsxfrm_l()` functions may set `errno`, but no return value is reserved to indicate an error.

ERRORS

These functions may fail if:

EINVAL The wide-character string pointed to by `ws2` contains wide-character codes outside the domain of the collating sequence.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

The transformation function is such that two transformed wide-character strings can be ordered by `wscmp()` as appropriate to collating sequence

information in the current locale (category LC_COLLATE).

The fact that when n is 0 ws1 is permitted to be a null pointer is use?

ful to determine the size of the ws1 array prior to making the trans?

formation.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

wcscmp(), wcscoll()

The Base Definitions volume of POSIX.1-2017, <wchar.h>

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