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

\$ man wctype.3p

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

wctype, wctype_l ? define character class

SYNOPSIS

```
#include <wctype.h>

wctype_t wctype(const char *property);

wctype_t wctype_l(const char *property, locale_t locale);
```

DESCRIPTION

For wctype(): 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 wctype() and wctype_l() functions are defined for valid character class names as defined in the current locale or in the locale represented by locale, respectively.

The property argument is a string identifying a generic character class for which codeset-specific type information is required. The following character class names shall be defined in all locales:

alnum digit punct

alpha graph space

blank lower upper

cntrl print xdigit

Additional character class names defined in the locale definition file

(category LC_CTYPE) can also be specified.

These functions shall return a value of type `wctype_t`, which can be used as the second argument to subsequent calls of `iswctype()` and `iswctype_l()`.

The `wctype()` and `wctype_l()` functions shall determine values of `wctype_t` according to the rules of the coded character set defined by character type information in the current locale or in the locale represented by `locale`, respectively (category LC_CTYPE).

The values returned by `wctype()` shall be valid until a call to `setlocale()` that modifies the category LC_CTYPE.

The values returned by `wctype_l()` shall be valid only in calls to `iswctype_l()` with a locale represented by `locale` with the same LC_CTYPE category value.

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

RETURN VALUE

The `wctype()` and `wctype_l()` functions shall return 0 if the given character class name is not valid for the current locale (category LC_CTYPE); otherwise, they shall return an object of type `wctype_t` that can be used in calls to `iswctype()` and `iswctype_l()`.

ERRORS

No errors are defined.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`iswctype()`

The Base Definitions volume of POSIX.1?2017, `<wctype.h>`

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