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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'iswctype.3p' command**

**\$ man iswctype.3p**

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

iswctype, iswctype\_l ? test character for a specified class

### SYNOPSIS

```
#include <wctype.h>

int iswctype(wint_t wc, wctype_t charclass);

int iswctype_l(wint_t wc, wctype_t charclass,
               locale_t locale);
```

### DESCRIPTION

For `iswctype()`: 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 `iswctype()` and `iswctype_l()` functions shall determine whether the wide-character code `wc` has the character class `charclass`, returning true or false. The `iswctype()` and `iswctype_l()` functions are defined on WEOF and wide-character codes corresponding to the valid character encodings in the current locale, or in the locale represented by `locale`,

respectively. If the `wc` argument is not in the domain of the function, the result is undefined. If the value of `charclass` is invalid (that is, not obtained by a call to `wctype()` or `charclass` is invalidated by a subsequent call to `setlocale()` that has affected category `LC_CTYPE`) the result is unspecified.

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

## RETURN VALUE

The `iswctype()` and `iswctype_l()` functions shall return non-zero (true) if and only if `wc` has the property described by `charclass`. If `charclass` is `(wctype_t)0`, these functions shall return 0.

## ERRORS

No errors are defined.

The following sections are informative.

## EXAMPLES

### Testing for a Valid Character

```
#include <wctype.h>
...
int yes_or_no;
wint_t wc;
wctype_t valid_class;
...
if ((valid_class=wctype("vowel")) == (wctype_t)0)
    /* Invalid character class. */
yes_or_no=iswctype(wc,valid_class);
```

## APPLICATION USAGE

The twelve strings "alnum", "alpha", "blank", "cntrl", "digit", "graph", "lower", "print", "punct", "space", "upper", and "xdigit" are reserved for the standard character classes. In the table below, the functions in the left column are equivalent to the functions in the right column.

<code>iswalnum(wc)</code>	<code>iswctype(wc, wctype("alnum"))</code>
---------------------------	--

iswalnum\_l(wc, locale) iswctype\_l(wc, wctype("alnum"), locale)  
iswalpha(wc) iswctype(wc, wctype("alpha"))  
iswalpha\_l(wc, locale) iswctype\_l(wc, wctype("alpha"), locale)  
iswblank(wc) iswctype(wc, wctype("blank"))  
iswblank\_l(wc, locale) iswctype\_l(wc, wctype("blank"), locale)  
iswcntrl(wc) iswctype(wc, wctype("cntrl"))  
iswcntrl\_l(wc, locale) iswctype\_l(wc, wctype("cntrl"), locale)  
iswdigit(wc) iswctype(wc, wctype("digit"))  
iswdigit\_l(wc, locale) iswctype\_l(wc, wctype("digit"), locale)  
iswgraph(wc) iswctype(wc, wctype("graph"))  
iswgraph\_l(wc, locale) iswctype\_l(wc, wctype("graph"), locale)  
iswlower(wc) iswctype(wc, wctype("lower"))  
iswlower\_l(wc, locale) iswctype\_l(wc, wctype("lower"), locale)  
iswprint(wc) iswctype(wc, wctype("print"))  
iswprint\_l(wc, locale) iswctype\_l(wc, wctype("print"), locale)  
iswpunct(wc) iswctype(wc, wctype("punct"))  
iswpunct\_l(wc, locale) iswctype\_l(wc, wctype("punct"), locale)  
iswspace(wc) iswctype(wc, wctype("space"))  
iswspace\_l(wc, locale) iswctype\_l(wc, wctype("space"), locale)  
iswupper(wc) iswctype(wc, wctype("upper"))  
iswupper\_l(wc, locale) iswctype\_l(wc, wctype("upper"), locale)  
iswxdigit(wc) iswctype(wc, wctype("xdigit"))  
iswxdigit\_l(wc, locale) iswctype\_l(wc, wctype("xdigit"), locale)

## RATIONALE

None.

## FUTURE DIRECTIONS

None.

## SEE ALSO

iswalnum(), iswalpha(), iswcntrl(), iswdigit(), iswgraph(), iswlower(),  
iswprint(), iswpunct(), iswspace(), iswupper(), iswxdigit(), setlo?  
cale(), uselocale(), wctype()

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

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