

NAME

wctype – wide-character classification

LIBRARY

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

SYNOPSIS

```
#include <wctype.h>
```

```
wctype_t wctype(const char *name);
```

DESCRIPTION

The *wctype_t* type represents a property which a wide character may or may not have. In other words, it represents a class of wide characters. This type's nature is implementation-dependent, but the special value (*wctype_t*) 0 denotes an invalid property. Nonzero *wctype_t* values can be passed to the **iswctype(3)** function to actually test whether a given wide character has the property.

The **wctype()** function returns a property, given by its name. The set of valid names depends on the **LC_CTYPE** category of the current locale, but the following names are valid in all locales.

- "alnum" – realizes the **isalnum(3)** classification function
- "alpha" – realizes the **isalpha(3)** classification function
- "blank" – realizes the **isblank(3)** classification function
- "cntrl" – realizes the **iscntrl(3)** classification function
- "digit" – realizes the **isdigit(3)** classification function
- "graph" – realizes the **isgraph(3)** classification function
- "lower" – realizes the **islower(3)** classification function
- "print" – realizes the **isprint(3)** classification function
- "punct" – realizes the **ispunct(3)** classification function
- "space" – realizes the **isspace(3)** classification function
- "upper" – realizes the **isupper(3)** classification function
- "xdigit" – realizes the **isxdigit(3)** classification function

RETURN VALUE

The **wctype()** function returns a property descriptor if the *name* is valid. Otherwise, it returns (*wctype_t*) 0.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes(7)**.

| Interface | Attribute | Value |
|-----------------|---------------|----------------|
| wctype() | Thread safety | MT-Safe locale |

STANDARDS

POSIX.1-2001, POSIX.1-2008, C99.

NOTES

The behavior of **wctype()** depends on the **LC_CTYPE** category of the current locale.

SEE ALSO

iswctype(3)