



Full credit is given to the above companies including the OS that this PDF file was generated!

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

\$ man isblank.3

ISALPHA(3) Linux Programmer's Manual ISALPHA(3)

NAME

isalnum, isalpha, isascii, isblank, iscntrl, isdigit, isgraph, islower, isprint, ispunct, isspace, isupper, isxdigit, isalnum_l, isalpha_l, isascii_l, isblank_l, iscntrl_l, isdigit_l, isgraph_l, islower_l, isprint_l, ispunct_l, isspace_l, isupper_l, isxdigit_l - character classification functions

SYNOPSIS

```
#include <ctype.h>

int isalnum(int c);
int isalpha(int c);
int iscntrl(int c);
int isdigit(int c);
int isgraph(int c);
int islower(int c);
int isprint(int c);
int ispunct(int c);
int isspace(int c);
int isupper(int c);
int isxdigit(int c);
int isascii(int c);
int isblank(int c);
int isalnum_l(int c, locale_t locale);
```

```

int isalpha_I(int c, locale_t locale);
int isblank_I(int c, locale_t locale);
int iscntrl_I(int c, locale_t locale);
int isdigit_I(int c, locale_t locale);
int isgraph_I(int c, locale_t locale);
int islower_I(int c, locale_t locale);
int isprint_I(int c, locale_t locale);
int ispunct_I(int c, locale_t locale);
int isspace_I(int c, locale_t locale);
int isupper_I(int c, locale_t locale);
int isxdigit_I(int c, locale_t locale);
int isascii_I(int c, locale_t locale);

```

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

isascii():

```

_XOPEN_SOURCE
    || /* Glibc since 2.19: */ _DEFAULT_SOURCE
    || /* Glibc versions <= 2.19: */ _SVID_SOURCE

```

isblank():

```

_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L

```

isalnum_I(), isalpha_I(), isblank_I(), iscntrl_I(), isdigit_I(), isgraph_I(), islower_I(), isprint_I(), ispunct_I(), isspace_I(), isupper_I(), isxdigit_I():

Since glibc 2.10:

```

_XOPEN_SOURCE >= 700

```

Before glibc 2.10:

```

_GNU_SOURCE

```

isascii_I():

Since glibc 2.10:

```

_XOPEN_SOURCE >= 700 && (_SVID_SOURCE || _BSD_SOURCE)

```

Before glibc 2.10:

```

_GNU_SOURCE

```

DESCRIPTION

These functions check whether c, which must have the value of an un?

signed char or EOF, falls into a certain character class according to the specified locale. The functions without the "_l" suffix perform the check based on the current locale.

The functions with the "_l" suffix perform the check based on the locale specified by the locale object locale. The behavior of these functions is undefined if locale is the special locale object LC_GLOBAL_LOCALE (see duplocale(3)) or is not a valid locale object handle.

The list below explains the operation of the functions without the "_l" suffix; the functions with the "_l" suffix differ only in using the locale object locale instead of the current locale.

isalnum()

checks for an alphanumeric character; it is equivalent to (isalpha(c) || isdigit(c)).

isalpha()

checks for an alphabetic character; in the standard "C" locale, it is equivalent to (isupper(c) || islower(c)). In some locales, there may be additional characters for which isalpha() is true?letters which are neither uppercase nor lowercase.

isascii()

checks whether c is a 7-bit unsigned char value that fits into the ASCII character set.

isblank()

checks for a blank character; that is, a space or a tab.

isctrl()

checks for a control character.

isdigit()

checks for a digit (0 through 9).

isgraph()

checks for any printable character except space.

islower()

checks for a lowercase character.

isprint()

checks for any printable character including space.

ispunct()

checks for any printable character which is not a space or an alphanumeric character.

isspace()

checks for white-space characters. In the "C" and "POSIX" locales, these are: space, form-feed ('\f'), newline ('\n'), carriage return ('\r'), horizontal tab ('\t'), and vertical tab ('\v').

isupper()

checks for an uppercase letter.

isxdigit()

checks for hexadecimal digits, that is, one of 0 1 2 3 4 5 6 7 8 9 a b c d e f A B C D E F.

RETURN VALUE

The values returned are nonzero if the character c falls into the tested class, and zero if not.

VERSIONS

isalnum_l(), isalpha_l(), isblank_l(), iscntrl_l(), isdigit_l(), isgraph_l(), islower_l(), isprint_l(), ispunct_l(), isspace_l(), isupper_l(), isxdigit_l(), and isascii_l() are available since glibc 2.3.

ATTRIBUTES

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

attributes(7).

??

?Interface ? Attribute ? Value ?

??

?isalnum(), isalpha(), isascii(), ? Thread safety ? MT-Safe ?

?isblank(), iscntrl(), isdigit(), ? ? ?

?isgraph(), islower(), isprint(), ? ? ?

?ispunct(), isspace(), isupper(), ? ? ?

?isxdigit() ? ? ?

??

CONFORMING TO

C89 specifies `isalnum()`, `isalpha()`, `isctrnl()`, `isdigit()`, `isgraph()`, `islower()`, `isprint()`, `ispunct()`, `isspace()`, `isupper()`, and `isxdigit()`, but not `isascii()` and `isblank()`. POSIX.1-2001 also specifies those functions, and also `isascii()` (as an XSI extension) and `isblank()`. C99 specifies all of the preceding functions, except `isascii()`.

POSIX.1-2008 marks `isascii()` as obsolete, noting that it cannot be used portably in a localized application.

POSIX.1-2008 specifies `isalnum_l()`, `isalpha_l()`, `isblank_l()`, `isctrnl_l()`, `isdigit_l()`, `isgraph_l()`, `islower_l()`, `isprint_l()`, `ispunct_l()`, `isspace_l()`, `isupper_l()`, and `isxdigit_l()`. `isascii_l()` is a GNU extension.

NOTES

The standards require that the argument `c` for these functions is either EOF or a value that is representable in the type `unsigned char`. If the argument `c` is of type `char`, it must be cast to `unsigned char`, as in the following example:

```
char c;
...
res = toupper((unsigned char) c);
```

This is necessary because `char` may be the equivalent of signed `char`, in which case a byte where the top bit is set would be sign extended when converting to `int`, yielding a value that is outside the range of `unsigned char`.

The details of what characters belong to which class depend on the locale. For example, `isupper()` will not recognize an A-umlaut (ä) as an uppercase letter in the default C locale.

SEE ALSO

`iswalnum(3)`, `iswalph(3)`, `iswblank(3)`, `iswcntrl(3)`, `iswdigit(3)`, `iswgraph(3)`, `iswlower(3)`, `iswprint(3)`, `iswpunct(3)`, `iswspace(3)`, `iswupper(3)`, `iswxdigit(3)`, `newlocale(3)`, `setlocale(3)`, `toascii(3)`, `tolower(3)`, `toupper(3)`, `uselocale(3)`, `ascii(7)`, `locale(7)`

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

GNU

2017-09-15

ISALPHA(3)