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

\$ man islower.3p

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

islower, islower_l ? test for a lowercase letter

SYNOPSIS

```
#include <ctype.h>

int islower(int c);

int islower_l(int c, locale_t locale);
```

DESCRIPTION

For `islower()`: 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 `islower()` and `islower_l()` functions shall test whether `c` is a character of class lower in the current locale, or in the locale represented by `locale`, respectively; see the Base Definitions volume of POSIX.1?2017, Chapter 7, Locale.

The `c` argument is an `int`, the value of which the application shall ensure is a character representable as an unsigned char or equal to the

value of the macro EOF. If the argument has any other value, the behavior is undefined.

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

RETURN VALUE

The `islower()` and `islower_l()` functions shall return non-zero if `c` is a lowercase letter; otherwise, they shall return 0.

ERRORS

No errors are defined.

The following sections are informative.

EXAMPLES

Testing for a Lowercase Letter

Two examples follow, the first using `islower()`, the second using multiple concurrent locales and `islower_l()`.

The examples test whether the value is a lowercase letter, based on the current locale, then use it as part of a key value.

```
/* Example 1 -- using islower() */
#include <ctype.h>
#include <stdlib.h>
#include <locale.h>
...
char *keystr;
int elementlen, len;
unsigned char c;
...
setlocale(LC_ALL, "");
...
len = 0;
while (len < elementlen) {
    c = (unsigned char) (rand() % 256);
    ...
    if (islower(c))
```

```

        keystr[len++] = c;
    }
...
/* Example 2 -- using islower_l() */
#include <ctype.h>
#include <stdlib.h>
#include <locale.h>
...
char *keystr;
int elementlen, len;
unsigned char c;
...
locale_t loc = newlocale (LC_ALL_MASK, "", (locale_t) 0);
...
len = 0;
while (len < elementlen) {
    c = (unsigned char) (rand() % 256);
    ...
    if (islower_l(c, loc))
        keystr[len++] = c;
}
...

```

APPLICATION USAGE

To ensure applications portability, especially across natural languages, only these functions and the functions in the reference pages listed in the SEE ALSO section should be used for character classification.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

isalnum(), isalpha(), isblank(), iscntrl(), isdigit(), isgraph(), is?

print(), ispunct(), isspace(), isupper(), isxdigit(), setlocale(), use?

locale()

The Base Definitions volume of POSIX.1-2017, Chapter 7, Locale,

<ctype.h>, <locale.h>

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