

new/usr/src/common/util/strtolctype.h

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*****
3071 Fri Feb 19 16:43:03 2016
new/usr/src/common/util/strtolctype.h
6596 Macro redefined in strtolctype.h
*****
1 /*
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19 * CDDL HEADER END
20 */
22 /*
23 * Copyright 2016 Gary Mills
24 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */
28 /*      Copyright (c) 1988 AT&T */
29 /*      All Rights Reserved */
31 #ifndef _COMMON_UTIL_STRTOLCTYPE_H
32 #define _COMMON_UTIL_STRTOLCTYPE_H
30 #ifndef _COMMON_UTIL_CTYPE_H
31 #define _COMMON_UTIL_CTYPE_H
34 #ifdef __cplusplus
35 extern "C" {
36 #endif
38 /*
39 * This is a private header file containing a collection of macros that
40 * the strtou?ll? functions in common/util use to test characters. Which
41 * macros are defined depends on which of _KERNEL or _BOOT are defined.
42 * New code should use the kernel version of ctype.h: <sys/ctype.h>.
43 * This header file contains a collection of macros that the strtou?ll?
44 * functions in common/util use to test characters. What we need is a kernel
45 * version of ctype.h.
46 *
47 * NOTE: These macros are used within several DTrace probe context functions.
48 * They must not be altered to make function calls or perform actions not
49 * safe in probe context.
50 */
51 /*
52 * Cases that define these macros:
53 *   _KERNEL && !_BOOT: Used by kernel functions
54 *   !_KERNEL && _BOOT: Used by dboot_startkern.c for x86 boot
55 * Cases that omit these macros:
56 *   _KERNEL && !_BOOT: Used by common/util/strtol.c for SPARC boot library
57 *   !_KERNEL && !_BOOT: Used by strtou?ll? functions in libc
58 */
```

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57 #if defined(_KERNEL) ^ defined(_BOOT)
47 #if defined(_KERNEL) || defined(_BOOT)
59 #define isalnum(ch) ((isalpha(ch) || isdigit(ch))
60 #define isalpha(ch) (isupper(ch) || islower(ch))
61 #define isdigit(ch) ((ch) >= '0' && (ch) <= '9')
62 #define islower(ch) ((ch) >= 'a' && (ch) <= 'z')
63 #define isspace(ch) (((ch) == ' ') || ((ch) == '\r') || ((ch) == '\n') || \
64 ((ch) == '\t') || ((ch) == '\f'))
65 #define isupper(ch) ((ch) >= 'A' && (ch) <= 'Z')
66 #define isxdigit(ch) (isdigit(ch) || ((ch) >= 'a' && (ch) <= 'f') || \
67 ((ch) >= 'A' && (ch) <= 'F'))
69 #endif /* _KERNEL ^ _BOOT */
59 #endif /* _KERNEL || _BOOT */
71 /*
72 * The following macros are defined unconditionally.
73 */
75 #define DIGIT(x) \
76 (isdigit(x) ? (x) - '0' : islower(x) ? (x) + 10 - 'a' : (x) + 10 - 'A')
78 #define MBASE ('z' - 'a' + 1 + 10)
80 /*
81 * The following macro is a version of isalnum() that limits alphabetic
82 * characters to the ranges a-z and A-Z; locale dependent characters will not
83 * return 1. The members of a-z and A-Z are assumed to be in ascending order
84 * and contiguous.
85 */
86 #define lisalnum(x) \
87 (isdigit(x) || ((x) >= 'a' && (x) <= 'z') || ((x) >= 'A' && (x) <= 'Z'))
89 #ifdef __cplusplus
90 }
91 #endif
93 #endif /* _COMMON_UTIL_STRTOLCTYPE_H */
79 #endif /* _COMMON_UTIL_CTYPE_H */
```