

new/usr/src/cmd/mdb/intel/kmdb/kctl/kctl_isadep.c

```
*****
4910 Thu Aug 23 08:51:24 2012
new/usr/src/cmd/mdb/intel/kmdb/kctl/kctl_isadep.c
2601 kctl_isadep.c should support four serial consoles
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23  * Copyright (c) 2012 Gary Mills
24  *
25  * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27 */
27 #pragma ident "%Z%%M% %I%     %E% SMI"
29 #include <kmdb/kmdb_auxv.h>
30 #include <kmdb/kctl/kctl.h>
32 #include <sys/bootconf.h>
33 #include <sys/kobj.h>
34 #include <sys/kobj_impl.h>
35 #include <sys/cpuvar.h>
36 #include <sys/kdi_impl.h>
37 #include <sys/x86_archext.h>
38 #include <sys/controlregs.h>
39 #include <sys/archsysm.h>
41 static int
42 kctl_boot_prop_read(char *pname, char *prop_buf, int buf_len)
43 {
44     struct bootops *ops = kctl.kctl_boot_ops;
45     int len;
47     len = BOP_GETPROPLEN(ops, pname);
48     if (len > 0 && len <= buf_len) {
49         (void) BOP_GETPROP(ops, pname, (void *)prop_buf);
50         return (1);
51     }
53     return (0);
54 }
unchanged_portion_omitted_
76 /*
77 * We don't have any property-walking routines, so we have to specifically
78 * query and thus have guilty knowledge of the properties that the
```

1

new/usr/src/cmd/mdb/intel/kmdb/kctl/kctl_isadep.c

```
79  * debugger wants to see.
80  *
81  * Here actually we only support six console properties:
82  *      input-device, output-device, tty[a-d]-mode.
83  * Here actually we only support four console properties:
84  *      input-device, output-device, ttya-mode, ttvb-mode.
85  */
84 #define KCTL_PROPNV_NIODEV      2
85 #define KCTL_PROPNV_NTTYMD      4
86 #define KCTL_PROPNV_NENT        (KCTL_PROPNV_NIODEV + KCTL_PROPNV_NTTYMD)
84 #define KCTL_PROPNV_NENT        4
88 static kmdb_auxv_nv_t *
89 kctl_pcache_create(int *nprops)
90 {
91     int (*preader)(char *, char *, int);
92     kmdb_auxv_nv_t *pnv;
93     size_t psz = sizeof(kmdb_auxv_nv_t) * KCTL_PROPNV_NENT;
94     char *inputdev, *outputdev;
95     int i;
96     char ttymode[] = "ttyX-mode";
98     if (kctl.kctl_boot_loaded) {
99         preader = kctl_boot_prop_read;
100    } else {
101        preader = kctl_ddi_prop_read;
102    }
104     pnv = kobj_alloc(psz, KM_WAIT);
105     inputdev = (&pnv[0])->kanv_val;
106     outputdev = (&pnv[1])->kanv_val;
108  /* Set the property names. */
109     (void) strcpy((&pnv[0])->kanv_name, "input-device");
110     (void) strcpy((&pnv[1])->kanv_name, "output-device");
111     for (i = 0; i < KCTL_PROPNV_NTTYMD; i++) {
112         ttymode[3] = 'a' + i;
113         (void) strcpy((&pnv[i + KCTL_PROPNV_NIODEV])->kanv_name,
114                         ttymode);
115     }
103     (void) strcpy((&pnv[2])->kanv_name, "ttya-mode");
104     (void) strcpy((&pnv[3])->kanv_name, "ttvb-mode");
117  /*
118   * console is defined by "console" property, with
119   * fallback on the old "input-device" property.
120   */
121     (void) strcpy(inputdev, "text"); /* default to screen */
122     if (!preader("console", inputdev, sizeof((&pnv[0])->kanv_val)))
123         (void) preader("input-device", inputdev,
124                         (void) strcpy((&pnv[0])->kanv_val, "text")); /* default to screen */
110     if (!preader("console", (&pnv[0])->kanv_val,
111                  sizeof((&pnv[0])->kanv_val)))
112         (void) preader("input-device", (&pnv[0])->kanv_val,
124                         sizeof((&pnv[0])->kanv_val));
126     if (strncmp(inputdev, "tty", 3) == 0 &&
127         inputdev[4] == '\0' &&
128         inputdev[3] >= 'a' &&
129         inputdev[3] < 'a' + KCTL_PROPNV_NTTYMD) {
130         (void) strcpy(outputdev, inputdev);
116     if (strcmp((&pnv[0])->kanv_val, "ttya") == 0 ||
117         strcmp((&pnv[0])->kanv_val, "ttvb") == 0) {
118         (void) strcpy((&pnv[1])->kanv_val, (&pnv[0])->kanv_val);
131     } else {
132         (void) strcpy(inputdev, "keyboard");
```

2

```
133         (void) strcpy(outputdev, "screen");
120         (void) strcpy((&pnv[0])->kanv_val, "keyboard");
121         (void) strcpy((&pnv[1])->kanv_val, "screen");
134     }
```

```
136     /* Set tty modes or defaults. */
137     for (i = KCTL_PROPNV_NIODEV; i < KCTL_PROPNV_NENT; i++) {
138         if (!preader((&pnv[i])->kanv_name, (&pnv[i])->kanv_val,
139                     sizeof ((&pnv[0])->kanv_val)))
140             (void) strcpy((&pnv[i])->kanv_val, "9600,8,n,1,-");
141     }
124     if (!preader((&pnv[2])->kanv_name, (&pnv[2])->kanv_val,
125                 sizeof ((&pnv[2])->kanv_val)))
126         (void) strcpy((&pnv[2])->kanv_val, "9600,8,n,1,-");
128     if (!preader((&pnv[3])->kanv_name, (&pnv[3])->kanv_val,
129                 sizeof ((&pnv[3])->kanv_val)))
130         (void) strcpy((&pnv[3])->kanv_val, "9600,8,n,1,-");
143     *nprops = KCTL_PROPNV_NENT;
144     return (pnv);
145 }
```

unchanged_portion_omitted_