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1  /*
2  * (C) Copyright 2002
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4  *
5  * See file CREDITS for list of people who contributed to this
6  * project.
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19 * along with this program; if not, write to the Free Software
20 * Foundation, Inc., 59 Temple Place, Suite 330, Boston,
21 * MA 02111-1307 USA
22 */
23
24 #ifndef _ENVIRONMENT_H_
25 #define _ENVIRONMENT_H_ 1
26
27 /*****
28 *
29 * The "environment" is stored as a list of '\0' terminated
30 * "name=value" strings. The end of the list is marked by a double
31 * '\0'. New entries are always added at the end. Deleting an entry
32 * shifts the remaining entries to the front. Replacing an entry is a
33 * combination of deleting the old value and adding the new one.
34 *
35 * The environment is preceeded by a 32 bit CRC over the data part.
36 *
37 *****/
38 */
39
40 /* ghcstop */
41 #if defined(CFG_ENV_IS_IN_FLASH)
42 # ifnndef CFG_ENV_ADDR
43 # define CFG_ENV_ADDR (CFG_FLASH_BASE + CFG_ENV_OFFSET)
44 # endif
45 # ifnndef CFG_ENV_OFFSET
46 # define CFG_ENV_OFFSET (CFG_ENV_ADDR - CFG_FLASH_BASE)
47 # endif
48 # if !defined(CFG_ENV_ADDR_REDUND) && defined(CFG_ENV_OFFSET_REDUND)
49 # define CFG_ENV_ADDR_REDUND (CFG_FLASH_BASE + CFG_ENV_OFFSET_REDUND)
50 # endif
51 # if defined(CFG_ENV_SECT_SIZE) || defined(CFG_ENV_SIZE)
52 # ifnndef CFG_ENV_SECT_SIZE
53 # define CFG_ENV_SECT_SIZE CFG_ENV_SIZE
54 # endif
55 # ifnndef CFG_ENV_SIZE
56 # define CFG_ENV_SIZE CFG_ENV_SECT_SIZE
57 # endif
58 # else
59 # error "Both CFG_ENV_SECT_SIZE and CFG_ENV_SIZE undefined"
60 # endif
61 # if defined(CFG_ENV_ADDR_REDUND) && !defined(CFG_ENV_SIZE_REDUND)
62 # define CFG_ENV_SIZE_REDUND CFG_ENV_SIZE
63 # endif
64 # if (CFG_ENV_ADDR >= CFG_MONITOR_BASE) && \
65 (CFG_ENV_ADDR+CFG_ENV_SIZE) <= (CFG_MONITOR_BASE + CFG_MONITOR_LEN)
66 /* base environment 가 ( ,
67 ), 가
68 ( , u-boot ) 가 ...
69 .... start_armboot() env_relocate()
70 . */
71 # define ENV_IS_EMBEDDED 1
72 # endif
73 # if defined(CFG_ENV_ADDR_REDUND) || defined(CFG_ENV_OFFSET_REDUND)
74 # define CFG_REDUNDAND_ENVIRONMENT 1
75 # endif
76 #endif /* CFG_ENV_IS_IN_FLASH */
77
78
79 #ifdef CFG_REDUNDAND_ENVIRONMENT
80 # define ENV_HEADER_SIZE (sizeof(unsigned long) + 1)
81 #else
82 # define ENV_HEADER_SIZE (sizeof(unsigned long))

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```
83 #endif
84
85
86 /* ghcstop */
87 /* CFG_ENV_SIZE: smdk2410.h */
88 #define ENV_SIZE (CFG_ENV_SIZE - ENV_HEADER_SIZE)
89
90 typedef struct environment_s {
91     unsigned long    crc; /* CRC32 over data bytes */
92 #ifdef CFG_REDUNDAND_ENVIRONMENT
93     unsigned char    flags; /* active/obsolete flags */
94 #endif
95     unsigned char    data[ENV_SIZE]; /* Environment data */
96 } env_t;
97
98 #endif /* _ENVIRONMENT_H_ */
99
```