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1  /* This file contains information dump procedures. During the initialization
2  * of the Information Service 'known' function keys are registered at the TTY
3  * server in order to receive a notification if one is pressed. Here, the
4  * corresponding dump procedure is called.
5  *
6  * The entry points into this file are
7  *   handle_fkey:      handle a function key pressed notification
8  */
9
10 #include "inc.h"
11
12 /* Define hooks for the debugging dumps. This table maps function keys
13  * onto a specific dump and provides a description for it.
14  */
15 #define NHOOKS 19
16
17 struct hook_entry {
18     int key;
19     void (*function)(void);
20     char *name;
21 } hooks[NHOOKS] = {
22     { F1,  proctab_dmp, "Kernel process table" },
23     { F2,  memmap_dmp, "Process memory maps" },
24     { F3,  image_dmp, "System image" },
25     { F4,  privileges_dmp, "Process privileges" },
26     { F5,  monparams_dmp, "Boot monitor parameters" },
27     { F6,  irqtab_dmp, "IRQ hooks and policies" },
28     { F7,  kmessages_dmp, "Kernel messages" },
29     { F9,  sched_dmp, "Scheduling queues" },
30     { F10, kenv_dmp, "Kernel parameters" },
31     { F11, timing_dmp, "Timing details (if enabled)" },
32     { F12, recent_dmp, "Recent CPU time" },
33     { SF1, mproc_dmp, "Process manager process table" },
34     { SF2, sigaction_dmp, "Signals" },
35     { SF3, fproc_dmp, "Filesystem process table" },
36     { SF4, dtab_dmp, "Device/Driver mapping" },
37     { SF5, mapping_dmp, "Print key mappings" },
38     { SF6, rproc_dmp, "Reincarnation server process table" },
39     { SF7, holes_dmp, "Memory free list" },
40     { SF8, data_store_dmp, "Data store contents" },
41 };
42
43 /*=====*
44  *                      handle_fkey                      *
45  *=====*/
46 #define pressed(k) ((F1<=(k)&&(k)<=F12 && bit_isset(m->FKEY_FKEYS, ((k)-F1+1)))\
47  || (SF1<=(k) && (k)<=SF12 && bit_isset(m->FKEY_SFKEYS, ((k)-SF1+1))))
48 PUBLIC int do_fkey_pressed(m)
49 message *m;                                /* notification message */
50 {
51     int s, h;
52
53     /* The notification message does not convey any information, other
54      * than that some function keys have been pressed. Ask TTY for details.
55      */
56     m->m_type = FKEY_CONTROL;
57     m->FKEY_REQUEST = FKEY_EVENTS;
58     if (OK != (s=sendrec(TTY_PROC_NR, m)))
59         report("IS", "warning, sendrec to TTY failed", s);
60
61     /* Now check which keys were pressed: F1-F12, SF1-SF12. */
62     for(h=0; h < NHOOKS; h++)
63         if(pressed(hooks[h].key))
64             hooks[h].function();
65

```