```
/* This file contains information dump procedures. During the initialization
     * 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
    #include "inc.h"
10
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 18
16
17
    struct hook_entry {
18
            int key;
19
            void (*function)(void);
20
            char *name;
21
    } hooks[NHOOKS] = {
                   proctab_dmp, "Kernel process table" },
22
            { F1,
                   memmap_dmp, "Process memory maps" },
23
            { F2,
                   image_dmp, "System image" },
24
            { F3,
25
            /* { F4,
                           privileges_dmp, "Process privileges" }, */
2.6
            { F4, messaging_dmp, "Messaging activity" },
27
            { F5,
                   monparams_dmp, "Boot monitor parameters" },
28
            { F6,
                   irqtab_dmp, "IRQ hooks and policies" },
            { F7,
                   kmessages_dmp, "Kernel messages" },
29
            { F9,
                    sched_dmp, "Scheduling queues" },
30
            { F10, kenv_dmp, "Kernel parameters" },
31
32
            { F11, timing_dmp, "Timing details (if enabled)" },
            { SF1, mproc_dmp, "Process manager process table" },
33
34
            { SF2, sigaction_dmp, "Signals" },
            { SF3, fproc_dmp, "Filesystem process table" },
35
            { SF4, dtab_dmp, "Device/Driver mapping" },
36
37
            { SF5, mapping_dmp, "Print key mappings" },
            { SF6, rproc_dmp, "Reincarnation server process table" },
38
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))))
    PUBLIC int do_fkey_pressed(m)
48
49
    message *m;
                                                   /* notification message */
50
    {
51
      int s, h;
52
53
      /* The notification message does not convey any information, other
       * than that some function keys have been pressed. Ask TTY for details.
54
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++)</pre>
63
          if(pressed(hooks[h].key))
64
              hooks[h].function();
65
```

```
/* Don't send a reply message. */
67
     return(EDONTREPLY);
68
    }
69
70
    /*----*
71
                          key_name
72
    73
    PRIVATE char *key_name(int key)
74
75
         static char name[15];
76
         if(key >= F1 && key <= F12)</pre>
77
78
               sprintf(name, " F%d", key - F1 + 1);
79
         else if(key >= SF1 && key <= SF12)</pre>
80
               sprintf(name, "Shift+F%d", key - SF1 + 1);
81
         else
               sprintf(name, "?");
82
83
         return name;
84
    }
85
86
87
    /*-----*
         mapping_dmp
88
89
    *=========*/
90
   PUBLIC void mapping_dmp(void)
91
    {
92
     int h;
93
94
     printf("Function key mappings for debug dumps in IS server.\n");
95
     printf(" Key Description\n");
96
     printf("-----");
     printf("----\n");
97
98
99
     for(h=0; h < NHOOKS; h++)</pre>
        printf(" %10s. %s\n", key_name(hooks[h].key), hooks[h].name);
100
101
     printf("\n");
102
    }
103
104
```