system do times.txt Page 1/2 Dec 01, 14 16:50 #include "sysutil.h" 2 /*----* 4 getuptime *----*/ PUBLIC int getuptime(ticks) clock t *ticks; /* uptime in ticks */ 8 9 10 message m; int s; 11 12 m.m_type = SYS_TIMES; /* request time information */ 13 m.T_PROC_NR = NONE; /* ignore process times */ s = _taskcall(SYSTASK, SYS_TIMES, &m); 15 16 *ticks = m.T_BOOT_TICKS; return(s); 17 18 19 20 21 ======== lib/syslib/sys_times.c ========= 22 23 #include "syslib.h" #include "syslib.h" 24 PUBLIC int sys_times(proc, ptr) 26 /* proc whose times are needed */ 27 int proc; clock_t ptr[5]; /* pointer to time buffer */ 28 29 * Fetch the accounting info for a proc. */ 30 31 message m; 32 int r; 33 34 m.T PROC NR = proc; r = _taskcall(SYSTASK, SYS_TIMES, &m); 35 ptr[0] = m.T_USER_TIME; 37 ptr[1] = m.T_SYSTEM_TIME; 38 ptr[2] = m.T_CHILD_UTIME; ptr[3] = m.T_CHILD_STIME; 39 ptr[4] = m.T_BOOT_TICKS; 41 return(r); 42 43 44 45 46

```
system do times.txt
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                                                             Page 2/2
  48 /* The kernel call implemented in this file:
   * m_type: SYS_TIMES
50
   * The parameters for this kernel call are:
51
52
   * m4_11: T_PROC_NR
                                   (get info for this process)
       m4_11:
               T_USER_TIME
                                   (return values ...)
53
       m4 12:
               T SYSTEM TIME
54
               T_BOOT_TICKS
55
       m4_15:
  #include "../system.h"
  #if USE_TIMES
61
62
  63
                         do times
   65
  PUBLIC int do_times(m_ptr)
  register message *m_ptr;
                            /* pointer to request message */
66
  /* Handle sys_times(). Retrieve the accounting information. */
69
    register struct proc *rp;
    int proc nr;
70
    /* Insert the times needed by the SYS_TIMES kernel call in the message.
72
     * The clock's interrupt handler may run to update the user or system time
73
     * while in this code, but that cannot do any harm.
74
75
76
    proc_nr = (m_ptr->T_PROC_NR == SELF) ? m_ptr->m_source : m_ptr->T_PROC_NR;
77
    if (isokprocn(proc_nr)) {
78
        rp = proc_addr(m_ptr->T_PROC_NR);
79
        m_ptr->T_USER_TIME = rp->p_user_time;
       m_ptr->T_SYSTEM_TIME = rp->p_sys_time;
80
81
    m_ptr->T_BOOT_TICKS = get_uptime();
83
    return(OK);
84
  #endif /* USE_TIMES */
```