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/* FocalPoint LKI */
/* Lab6: Scheduler Lab */
#include < linux/module.h >
#include < linux/kernel.h >
#include < linux/init.h >

#include < linux/delay.h >
#include < linux/kthread.h >
#include < linux/sched.h >

// #include <asm/string.h>
#define DRIVER_AUTHOR "FocalPoint"
#define DRIVER_DESC "Lab6"

MODULE_LICENSE("GPL");           // Get rid of taint message by declaring code as GPL.

/* Or with defines, like this: */
MODULE_AUTHOR(DRIVER_AUTHOR);    // Who wrote this module?
MODULE_DESCRIPTION(DRIVER_DESC); // What does this module do?

struct task_struct *ts;

int init(void) ; void
cleanup(void) ;

int thread(void *data)
{ struct task_struct *task; int
  last_pid = 0;
  while(1)
  { for_each_process(task)
    {
      /* find setsched process and save PID */ printk("Found setsched process, changing
      scheduling policy and priority level ...

\n") ;

      /* change policy and priority */

    }

    /* yield CPU for other processes */ msleep(100)
    ;

    /* check for pending signal to stop */
    if (kthread_should_stop()) break;
  }
  return 0;
}

int init(void)
{ printk(KERN_INFO "init_module() called\n") ; ts =
  kthread_run(thread, NULL, "kthread") ;
  return 0;
}
void cleanup(void)
{
  printk(KERN_ALERT "Unloading sched_dumper ...\n") ;

  /* stop thread */
  kthread_stop(ts);

```

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}

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module_init(init);  
module_exit(cleanup);
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