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/* ANRC RHKI */
/* Lab10: Timing Management Lab */
#include <linux/module.h>
#include <linux/kernel.h>
#include <linux/init.h>

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

#define DRIVER_AUTHOR "ANRC"
#define DRIVER_DESC "Lab10"

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?

/* Global timer */
static struct timer_list my_timer;

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

void my_timer_callback(unsigned long data)
{
    printk("extimer: my_timer_callback called\n");
}

int init(void)
{
    unsigned long delay;

    printk(KERN_INFO "init_module() called\n");
    printk("extimer: delaying startup for 10 seconds\n");

    /* delay startup for 10 seconds */

    printk("extimer: installing timer\n");

    /* install timer my_timer */

    printk("extimer: setting timer to fire callback in 20 seconds\n");

    /* add a timer to fire my_timer_callback in 20 seconds */

    return 0;
}

void cleanup(void)
{
    /* remove timer */

    printk(KERN_ALERT "Unloading extimer ...\n");
}

module_init(init);
module_exit(cleanup);
```