The /proc/sequence module source [Posted February 10, 2003 by corbet]

```
* Simple demonstration of the seq_file interface.
* $Id: seq.c,v 1.1 2003/02/10 21:02:02 corbet Exp $
#include linux/init.h>
#include linux/module.h>
#include linux/proc_fs.h>
#include inux/fs.h>
#include linux/seq file.h>
#include linux/slab.h>
MODULE AUTHOR("Jonathan Corbet");
MODULE LICENSE("Dual BSD/GPL");
 * The sequence iterator functions. We simply use the count of the
 * next line as our internal position.
static void *ct_seq_start(struct seq_file *s, loff_t *pos)
         loff t *spos = kmalloc(sizeof(loff_t), GFP_KERNEL);
         if (! spos)
                   return NULL;
          *spos = *pos;
         return spos;
static void *ct seq next(struct seq file *s, void *v, loff t *pos)
          loff_t *spos = (loff_t *) v;
          *pos = ++(*spos);
          return spos;
static void ct_seq_stop(struct seq_file *s, void *v)
          kfree (v);
 * The show function.
 static int ct_seq_show(struct seq_file *s, void *v)
          loff t *spos = (loff t *) v;
          seq printf(s, "%Ld\n", *spos);
          return 0:
```

2 pulication & faunt 1

опьзование файлов-

```
* Tie them all together into a set of seq_operations.
static struct seq operations ct seq ops = {
         .start = ct_seq_start,
         .next = ct_seq_next,
          .stop = ct_seq_stop,
          .show = ct_seq_show
1;
 * Time to set up the file operations for our /proc file. In this case,
 * all we need is an open function which sets up the sequence ops.
 static int et_open(struct inode *inode, struct file *file)
           return seq_open(file, &ct_seq_ops);
  3;
  * The file operations structure contains our open function along with
  * set of the canned seq_ops.
  */
  static struct file_operations ct_file_ops = {
           .owner = THIS_MODULE,
            .open = ct_open,
            .read = seq_read,
            .llseek = seq lseek,
            .release = seq release
  };
   * Module setup and teardown.
   static int ct init(void)
            struct proc dir entry *entry;
             entry = create proc entry("sequence", 0, NULL);
                      entry->proc fops = &ct file ops;
             return 0:
    static void ct_exit(void)
```