



## 实验代码



# “操作系统原理与实践”实验报告

## 终端设备的控制

```
Bochs x86 emulator, http://bochs.sourceforge.net/
[usr/root]# ls -l
total 134
-rw-r--rw-   1 root    root      1252 Mar 29  2004 README
drwx--xrwX   4 root    root        96 Mar 29  2004 gcclib140
-rwx--xrwX   1 root    root     20591 Nov 13  2004 hello
-rw-r--rw-   1 root    root       74 Mar 21  2004 hello.c
-rw----rw-   1 root    root      156 Nov 13  2004 hello.o
drwx--xrwX   2 root    root       176 Jun 25  2006 linux-0.00
-rw----rw-   1 root    root     4387 Jun 25  2006 linux0.tgz
-rw-r--rw-   1 root    root      420 Mar 21  2004 mtools.howto
drwx--xrwX   3 root    root       176 Sep 21  2004 shoe
-rw----rw-   1 root    root    101767 Sep 21  2004 shoelace.tar.Z
[usr/root]# 0: pid=0, state=1, 2740 (of 3140) chars free in kernel stack
1: pid=1, state=1, 2568 (of 3140) chars free in kernel stack
2: pid=4, state=1, 1448 (of 3140) chars free in kernel stack
3: pid=3, state=1, 1448 (of 3140) chars free in kernel stack
*****
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Lls
Lls: command not found
[usr/root]#
CTRL + 3rd button enables mouse | A: | HD:0-M | NUM | CAPS | SCRL | | | | | | | |
rm system.tmp
rm tools/kernel -f
sync
shiyantalou@440e2d7f9a43:~/oslab/oslab/linux-0.11$ cd ..
shiyantalou@440e2d7f9a43:~/oslab/oslab$ ./run
=====
                        Bochs x86 Emulator 2.3.7
                Build from CVS snapshot, on June 3, 2008
=====
000000000000i[          ] reading configuration from ./bochs/bochsrc.bxrc
000000000000i[          ] installing x module as the Bochs GUI
000000000000i[          ] using log file ./bochsgout.txt
```

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## 应用程序菜单

通过阅读源码注释，跟踪了键盘中断的执行过程。发现F12的键盘中断是func过程，那段代码的原始功能应该是调用show\_stat函数来显示一些东西。如果在扫描到F12的扫描码后，就启动或关闭一个开关的话，而这个开关在con\_write()函数里面控制输出的字符。这样应该就能完成实验任务。

开关变量`fl2_state`应该是一个内核维持的全局变量。一开始我是直接在`sched.c`里面声明并初始化的，结果报错，可能因为这样做`fl2_state`并不是一个全局变量吧，然后看`console.c`里面`#include`了`sched.h`，所以就索性在`sched.h`声明了`fl2_state`变量。然后就可以通过编译了。

