

```
Total Elapsed Time = 1328682
kauraman@ada:~/kauraman/cs510/p5$ vim Kernel.c
kauraman@ada:~/kauraman/cs510/p5$ make
kpl Kernel -unsafe
asm Kernel.s
lddd Runtime.o Switch.o System.o List.o BitMap.o Kernel.o Main.o -o os
kauraman@ada:~/kauraman/cs510/p5$ blitz -g os
Beginning execution...
```

```
===== KPL PROGRAM STARTING =====
```

```
Initializing Thread Scheduler...
Initializing Process Manager...
Initializing Thread Manager...
Initializing Frame Manager...
AllocateRandomFrames called.  NUMBER_OF_PHYSICAL_PAGE_FRAMES = 100
Initializing Disk Driver...
Initializing File Manager...
User-level program 'TestProgram1' is running...
```

```
***** Testing Syscall Parameter Passing *****
```

```
***** About to call Sys_Yield...
***** Should print:
*****   Handle_Sys_Yield invoked!
```

```
Handle_Sys_Yield invoked!
```

```
***** About to call Sys_Fork...
***** Should print:
*****   Handle_Sys_Fork invoked!
```

```
Handle_Sys_Fork invoked!
```

```
***** About to call Sys_Join...
***** Should print:
*****   Handle_Sys_Join invoked!
*****   processID = 1111
```

```
Handle_Sys_Join invoked!
```

```
processID=1111
```

```
***** About to call Sys_Create...
***** Should print:
*****   Handle_Sys_Create invoked!
*****   virt addr of filename = 0x0000BFF8
*****   filename = MyFileName
```

```
Handle_Sys_Create invoked!
```

```
virtual address of filename= 0x0000BFF8
filename= MyFileName
```

```
***** About to call Sys_Open...
```

```
***** About to call Sys_Open...
***** Should print:
*****   Handle_Sys_Open invoked!
*****   virt addr of filename = 0x0000BFF8
*****   filename = MyFileName
```

```
Handle_Sys_Open invoked!
virt addr of filename= 0x0000BFF8
filename= MyFileName
```

```
***** About to call Sys_Read...
***** Should print:
*****   Handle_Sys_Read invoked!
*****   fileDesc = 2222
*****   virt addr of buffer = 0x0000B080
*****   sizeInBytes = 3333
```

```
Handle_Sys_Read invoked!
fileDesc= 2222
virt addr of buffer= 0x0000B080
sizeInBytes= 3333
```

```
***** About to call Sys_Write...
***** Should print:
*****   Handle_Sys_Write invoked!
*****   fileDesc = 4444
*****   virt addr of buffer = 0x0000B080
*****   sizeInBytes = 5555
```

```
Handle_Sys_Write invoked!
fileDesc= 4444
virt addr of buffer= 0x0000B080
sizeInBytes= 5555
```

```
***** About to call Sys_Seek...
***** Should print:
*****   Handle_Sys_Seek invoked!
*****   fileDesc = 6666
*****   newCurrentPos = 7777
```

```
Handle_Sys_Seek invoked!
fileDesc= 6666
newCurrentPos= 7777
```

```
***** About to call Sys_Close...
***** Should print:
*****   Handle_Sys_Close invoked!
*****   fileDesc = 8888
```

```
Handle_Sys_Close invoked!
```



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Handle_Sys_Close invoked!

fileDesc= 8888

```
***** About to call Sys_Exit...
***** Should print:
*****   Handle_Sys_Exit invoked!
*****   returnStatus = 9999
```

Handle_Sys_Exit invoked!

return status= 9999

***** Syscall Test Complete *****

***** Testing Exec Syscall *****

```
***** About to call Sys_Exec with a non-existent file...
***** Should print:
*****   Okay
```

Okay

```
***** About to call Sys_Exec with an overly long file name...
***** Should print:
*****   Okay
```

Okay

```
***** About to perform a successful Exec and jump to TestProgram2...
***** Should print:
*****   User-level program 'TestProgram2' is running!
```

User-level program 'TestProgram2' is running!

```
***** About to call Sys_Shutdown...
***** Should print:
*****   FATAL ERROR in UserProgram: "Syscall 'Shutdown' was invoked by a user thread" -- TERMINATING!
```

FATAL ERROR in UserProcess: "Syscall 'shutdown' was invoked by a user thread" -- TERMINATING!

(To find out where execution was when the problem arose, type 'st' at the emulator prompt.)

===== KPL PROGRAM TERMINATION =====

***** A 'debug' instruction was encountered *****

Done! The next instruction to execute will be:

001078: C0100000 sethi 0x0000,r1 ! 0x00001088 = 4232 (noGoMessage)

Entering machine-level debugger...

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