```
Beginning execution...
Initializing Thread Scheduler...
Initializing Frame Manager...
                            NUMBER OF PHYSICAL PAGE FRAMES = 100
AllocateRandomFrames called.
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 = 0 \times 00000BFF8
****
         filename = MyFileName
****
Handle Sys Create invoked
Virtual address of the file: 0x0000BFF8
File Name: MyFileName
**** About to call Sys_Open...
**** Should print:
****
         Handle_Sys_Open invoked!
         virt addr of filename = 0x0000BFF8
****
         filename = MyFileName
****
```

```
Handle_Sys_Open invoked
Virtual address of the file name: 0x0000BFF8
file name :MyFileName
**** About to call Sys Read...
**** Should print:
****
          Handle_Sys_Read invoked!
          fileDesc = 2222
****
          virt addr of buffer = 0 \times 0000 B0B0
****
          sizeInBytes = 3333
****
Handle_Sys_Read invoked
fileDesc = 2222
Virtual address of buffer = 0 \times 0000B0B0
sizeInBytes = 3333
**** About to call Sys_Write...
**** Should print:
          Handle_Sys_Write invoked!
****
          fileDesc = 4444
****
          virt addr of buffer = 0 \times 0000 B0B0
****
****
          sizeInBytes = 5555
Handle_Sys_Write invoked
fileDesc = 4444
Virtual address of buffer = 0 \times 0000 B0B0
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

```
fileDesc = 8888
**** About to call Sys_Exit...
**** Should print:
****
          Handle Sys Exit invoked!
          returnStatus = 9999
****
 Handle_Sys_Exit invoked
returnStatus = 9999
**** Syscall Test Complete ****
**** Testing Exec Syscall ****
**** About to call Sys_Exec with a non-existant file...
**** Should print:
****
          0kay
*****
 Could not open file
 ********0kav
***** About to call Sys_Exec with an overly long file name...
**** Should print:
****
          0kay
0kay
***** 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 UserProgram: "
Syscall 'Shutdown' was invoked by the user thread
" -- TERMINATING!
(To find out where execution was when the problem arose, type 'st' at
the emulator prompt.)
========= KPL PROGRAM TERMINATION ==============
Done! The next instruction to execute will be:
001078: C0100000
                       sethi
                               0 \times 0000, r1 ! 0 \times 00001088 = 4232
```

(noGoMessage)

Enter a command at the prompt. Type 'quit' to exit or 'help' for info about commands.

> > Number of Disk Reads = 17

Number of Disk Writes = 0

Instructions Executed = 1322918
Time Spent Sleeping = 873
 Total Elapsed Time = 1323791