

```
Script started on Thu Jan  9 10:33:27 2025
0m27m24mJkajal@Kajals-MacBook-Pro p5 % K?2004hbl2Cz -g os11Db12Cz -g os?2004l
Beginning execution...
===== KPL PROGRAM STARTING =====
Initializing Thread Scheduler...
Initializing Thread Manager...
Initializing Frame Manager...
AllocateRandomFrames called.  NUMBER_OF_PHYSICAL_PAGE_FRAMES = 100
Initializing Disk Driver...
Initializing File Manager...
Initializing Thread 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!
virt addr of filename = 0x0000000A
fileName = MyFileName

***** 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 = 0x0000000A
fileName = MyFileName

***** About to call Sys_Read...
***** Should print:
*****     Handle_Sys_Read invoked!
*****     fileDesc = 2222
*****     virt addr of buffer = 0x0000B0B0
*****     sizeInBytes = 3333

Handle_Sys_Read invoked!
fileDesc = 2222
virt addr of filename = 0xFFFFFFFF
sizeInBytes = 3333

***** About to call Sys_Write...
***** Should print:
*****     Handle_Sys_Write invoked!
```

```
***** fileDesc = 4444
***** virt addr of buffer = 0x0000B0B0
***** sizeInBytes = 5555
```

```
Handle_Sys_Write invoked!
fileDesc = 4444
virt addr of filename = 0xFFFFFFFF
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-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 UserProgram: "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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=====
=====
=====          The BLITZ Machine Emulator          =====
=====
===== Copyright 2001-2007, Harry H. Porter III =====
=====
=====
```

info about commands.

> quit

```
Number of Disk Reads   = 17
Number of Disk Writes  = 0
Instructions Executed   = 1533236
Time Spent Sleeping    = 30
    Total Elapsed Time = 1533266
```

Script done on Thu Jan 9 10:33:45 2025