Justin Shuck

CS333 – Fall 2014

Proj 5 – Output

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Script started on Sun, Nov 2, 2014 4:02:54 PM

justin@Justin ~/cs333/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

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$ blitz -g os

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...

User-level program 'TestProgram1' is running...

\*\*\*\*\* Testing Syscall Parameter Passing \*\*\*\*\*

\*\*\*\*\* About to call Sys\_Yield...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Yield invoked!

Handle\_Sys\_Yield called.

\*\*\*\*\* About to call Sys\_Fork...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Fork invoked!

Handle\_Sys\_Fork called.

\*\*\*\*\* About to call Sys\_Join...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Join invoked!

\*\*\*\*\* processID = 1111

Handle\_Sys\_Join called with ProcessID = 1111.

\*\*\*\*\* About to call Sys\_Create...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Create invoked!

\*\*\*\*\* virt addr of filename = 0x0000BFF8

\*\*\*\*\* filename = MyFileName

Handle\_Sys\_Create called with Virtual Address = = 0x0000BFF8

and filename = 0x00028864.

\*\*\*\*\* About to call Sys\_Open...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Open invoked!

\*\*\*\*\* virt addr of filename = 0x0000BFF8

\*\*\*\*\* filename = MyFileName

Handle\_Sys\_Open called with Virtual Address = = 0x0000BFF8

and filename = 0x00028864.

\*\*\*\*\* About to call Sys\_Read...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Read invoked!

\*\*\*\*\* fileDesc = 2222

\*\*\*\*\* virt addr of buffer = 0x0000B0B0

\*\*\*\*\* sizeInBytes = 3333

Handle\_Sys\_Read called with fileDesc = 2222, Buffer(Virtual Address) = 0x0000B0B0, sizeInBytes = 3333.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ERROR: Bad return value from Sys\_Read

return value = 60000

\*\*\*\*\* About to call Sys\_Write...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Write invoked!

\*\*\*\*\* fileDesc = 4444

\*\*\*\*\* virt addr of buffer = 0x0000B0B0

\*\*\*\*\* sizeInBytes = 5555

Handle\_Sys\_Write called with fileDesc = 4444, Buffer(Virtual Address) = 0x0000B0B0, sizeInBytes = 5555.

\*\*\*\*\* About to call Sys\_Seek...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Seek invoked!

\*\*\*\*\* fileDesc = 6666

\*\*\*\*\* newCurrentPos = 7777

Handle\_Sys\_Seek called with fileDesc = 6666 and newCurrentPos = 7777.

\*\*\*\*\* About to call Sys\_Close...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Close invoked!

\*\*\*\*\* fileDesc = 8888

Handle\_Sys\_Close called with fileDes = 8888.

\*\*\*\*\* About to call Sys\_Exit...

\*\*\*\*\* Should print:

\*\*\*\*\* Handle\_Sys\_Exit invoked!

\*\*\*\*\* returnStatus = 9999

Handle\_sys\_Exit called with return status = 9999.

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

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

\*\*\*\*\* About to call Sys\_Exec with a non-existant 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!

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ERROR IN EXEC; return code = -1

FATAL ERROR in UserProgramThread: "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 =====

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===== Copyright 2001-2007, Harry H. Porter III =====

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

info about commands.

> q

Number of Disk Reads = 10

Number of Disk Writes = 0

Instructions Executed = 1063154

Time Spent Sleeping = 0

Total Elapsed Time = 1063154

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$ exit

Script done on Sun, Nov 2, 2014 4:03:03 PM