Justin Shuck

CS333 – Fall 2014

Proj 7 – Output

######################################################################

Script started on Thu, Nov 20, 2014 7:47:17 AM

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* OpenTest1 running \*\*\*\*\*\*\*\*\*\*

Attempting to open a nonexistent file, which should return -1.

Okay.

Attempting to open a file with an overly large name, which should return -1.

Okay.

Attempting to open an existing file, which should succeed.

Okay.

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 18

Number of Disk Writes = 0

Instructions Executed = 3427562

Time Spent Sleeping = 18804

Total Elapsed Time = 3446366

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* OpenTest2 running \*\*\*\*\*\*\*\*\*\*

Attempting to open the same file 10 times.

Open 0 succeeded

Open 1 succeeded

Open 2 succeeded

Open 3 succeeded

Open 4 succeeded

Open 5 succeeded

Open 6 succeeded

Open 7 succeeded

Open 8 succeeded

Open 9 succeeded

Attempting to open the file one more time, which should return -1.

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 18

Number of Disk Writes = 0

Instructions Executed = 3456416

Time Spent Sleeping = 18804

Total Elapsed Time = 3475220

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* OpenCloseTest running \*\*\*\*\*\*\*\*\*\*

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

Opening 10 files...

Closing all 10 files...

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 18

Number of Disk Writes = 0

Instructions Executed = 4295482

Time Spent Sleeping = 18804

Total Elapsed Time = 4314286

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* CloseTest running \*\*\*\*\*\*\*\*\*\*

Closing files which are not open and invalid file descriptors; should be nops...

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 18

Number of Disk Writes = 0

Instructions Executed = 3402102

Time Spent Sleeping = 18804

Total Elapsed Time = 3420906

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* ReadTest1 running \*\*\*\*\*\*\*\*\*\*

Should print '>>>Now is the time for all good m<<<'

>>>Now is the time for all good m<<<

Should print '>>>en to come to the aid of their<<<'

>>>en to come to the aid of their<<<

Should print '>>> parties!!!

o the aid of their<<<'

>>> parties!!!

o the aid of their<<<

Should print '>>> parties!!!

o the aid of their<<<'

>>> parties!!!

o the aid of their<<<

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 19

Number of Disk Writes = 0

Instructions Executed = 3425152

Time Spent Sleeping = 46288

Total Elapsed Time = 3471440

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* ReadTest2 running \*\*\*\*\*\*\*\*\*\*

Reading files which are not open and invalid file descriptors...

Okay

Okay

Okay

Okay

Okay

Okay

Reading with negative sizeInBytes...

Okay

Okay

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 18

Number of Disk Writes = 0

Instructions Executed = 3413423

Time Spent Sleeping = 18804

Total Elapsed Time = 3432227

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* SeekTest running \*\*\*\*\*\*\*\*\*\*

Should print 4...

retval = 4

Should print 0...

retval = 0

Should print 72...

retval = 72

Should print -1 (newCurrentPos is > file size)...

retval = -1

Should print -1 (newCurrentPos is < -1)...

retval = -1

Should print -1 (file not open)...

retval = -1

Should print -1 (bad file descriptor)...

retval = -1

Should print 35...

retval = 35

Should print '>>> come to the aid of their part<<<'

>>> come to the aid of their part<<<

Should print 8...

retval = 8

Should print '>>>he time for all good men to co<<<'

>>>he time for all good men to co<<<

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 19

Number of Disk Writes = 0

Instructions Executed = 3434319

Time Spent Sleeping = 46089

Total Elapsed Time = 3480408

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* WriteTest1 running \*\*\*\*\*\*\*\*\*\*

Should print '>>>abcdefghijklmnopqrst<<<'

>>>abcdefghijklmnopqrst<<<

Checking that the file contains "abcdefghijklmnopqrst" at position 0...

Okay.

Should print '>>>abcdePONMLklmZYXWVst<<<'

>>>abcdePONMLklmZYXWVst<<<

Checking that the file contains "abcdePONMLklmZYXWVst" at position 0...

Okay.

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 19

Number of Disk Writes = 1

Instructions Executed = 3451479

Time Spent Sleeping = 28533

Total Elapsed Time = 3480012

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* WriteTest2 running \*\*\*\*\*\*\*\*\*\*

Writing files which are not open...

Okay

Okay

Okay

Writing files with invalid file descriptors...

Okay

Okay

Okay

Writing with negative sizeInBytes...

Okay

Okay

Make sure file size is unchanged...

Okay

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

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* WriteTest3 running \*\*\*\*\*\*\*\*\*\*

Writing "abcdefghijklmnopqrstuvwxyz" to position 0 in file...

Okay

Writing "zyxwvutsrqponmlkjihgfedcba" to position 8179 in file...

Okay

Writing "aaaaabbbbbcccccdddddeeeeef" to position 16371 in file...

Okay

Writing "ggggghhhhhiiiiijjjjjkkkkkl" to position 24550 in file...

Okay

Checking that the file contains "abcdefghijklmnopqrstuvwxyz" at position 0...

Okay.

Checking that the file contains "zyxwvutsrqponmlkjihgfedcba" at position 8179...

Okay.

Checking that the file contains "aaaaabbbbbcccccdddddeeeeef" at position 16371...

Okay.

Checking that the file contains "ggggghhhhhiiiiijjjjjkkkkkl" at position 24550...

Okay.

Writing "AAAABBBBCCCCDDDDEEEEFFFFGG" to position 16371 in file...

Okay

Writing "ABCDEFGHIJKLMNOPQRSTUVWXYZ" to position 0 in file...

Okay

Writing "HHHHIIIIJJJJKKKKLLLLMMMMNN" to position 24550 in file...

Okay

Writing "ZYXWVUTSRQPONMLKJIHGFEDCBA" to position 8179 in file...

Okay

Checking that the file contains "ABCDEFGHIJKLMNOPQRSTUVWXYZ" at position 0...

Okay.

Checking that the file contains "ZYXWVUTSRQPONMLKJIHGFEDCBA" at position 8179...

Okay.

Checking that the file contains "AAAABBBBCCCCDDDDEEEEFFFFGG" at position 16371...

Okay.

Checking that the file contains "HHHHIIIIJJJJKKKKLLLLMMMMNN" at position 24550...

Okay.

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 33

Number of Disk Writes = 9

Instructions Executed = 3580991

Time Spent Sleeping = 29265

Total Elapsed Time = 3610256

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* WriteTest4 running \*\*\*\*\*\*\*\*\*\*

Writing "abcdefghijklmnopqrstuvwxyz" to position 0 in file...

Okay

Checking that the file contains "abcdefghijklmnopqrstuvwxyz" at position 0...

Okay.

Writing "0123" to current position...

Okay

Writing "ABC" to current position...

Okay

Writing "4567" to current position...

Okay

Writing "DEF" to current position...

Okay

Writing "89" to current position...

Okay

Writing "GHI" to current position...

Okay

Checking that the file contains "abc0123ABC4567DEF89GHIwxyz" at position 0...

Okay.

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 19

Number of Disk Writes = 4

Instructions Executed = 4810537

Time Spent Sleeping = 29083

Total Elapsed Time = 4839620

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* WriteTest5 running \*\*\*\*\*\*\*\*\*\*

Writing "abcdefghijklmnopqrstuvwxyz" to position 0 in file...

Okay

Checking that the file contains "abcdefghijklmnopqrstuvwxyz" at position 0...

Okay.

Writing "abcdefghijklmnopqrstuvwxyz" to position 8192 in file...

Okay

Checking that the file contains "abcdefghijklmnopqrstuvwxyz" at position 8192...

Okay.

Make sure that the activity of child 1 and child 2 is interleaved.

......Child 1 beginning......

......Child 2 beginning......

Writing "B" to position 1 in file...

Okay

Writing "N" to position 8205 in file...

Okay

Writing "D" to position 3 in file...

Writing "A" to position 0 in file...

Okay

Writing "P" to position 8207 in file...

Okay

Writing "M" to position 8204 in file...

Okay

Writing "F" to position 5 in file...

Okay

Writing "R" to position 8209 in file...

Okay

Okay

Writing "T" to position 8211 in file...

Okay

Writing "V" to position 8213 in file...

Okay

Writing "H" to position 7 in file...

Writing "C" to position 2 in file...

Okay

Writing "J" to position 9 in file...

Okay

Writing "O" to position 8206 in file...

Okay

Writing "L" to position 11 in file...

Okay

Writing "E" to position 4 in file...

Okay

Writing "Q" to position 8208 in file...

Okay

Writing "X" to position 8215 in file...

Okay

Writing "G" to position 6 in file...

Okay

Writing "I" to position 8 in file...

Okay

......Child 2 ending......

Okay

Writing "K" to position 10 in file...

Okay

Writing "S" to position 8210 in file...

Okay

Writing "U" to position 8212 in file...

Okay

Writing "W" to position 8214 in file...

Okay

......Child 1 ending......

Checking that the file contains "ABCDEFGHIJKLmnopqrstuvwxyz" at position 0...

Okay.

Checking that the file contains "abcdefghijklMNOPQRSTUVWXyz" at position 8192...

Okay.

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 36

Number of Disk Writes = 17

Instructions Executed = 4948028

Time Spent Sleeping = 28991

Total Elapsed Time = 4977019

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* ReadTest3 running \*\*\*\*\*\*\*\*\*\*

Should print 9 lines with the characters 'Now is th'.

Each line should contain only one character.

N--------

-o-------

--w------

--- -----

----i----

-----s---

------ --

-------t-

--------h

Should print 9 lines with the characters 'e time fo'.

Each line should contain only one character.

e--------

- -------

--t------

---i-----

----m----

-----e---

------ --

-------f-

--------o

Should print 9 lines with the characters 'r all goo'.

Each line should contain only one character.

r--------

- -------

--a------

---l-----

----l----

----- ---

------g--

-------o-

--------o

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 19

Number of Disk Writes = 0

Instructions Executed = 15606100

Time Spent Sleeping = 47482

Total Elapsed Time = 15653582

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* ReadTest4 running \*\*\*\*\*\*\*\*\*\*

Okay.

Okay.

Okay.

Okay.

Okay.

Okay.

Okay.

Okay.

Okay.

Okay.

Okay.

Okay.

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 19

Number of Disk Writes = 0

Instructions Executed = 3435405

Time Spent Sleeping = 45989

Total Elapsed Time = 3481394

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* WriteTest6 running \*\*\*\*\*\*\*\*\*\*

Initializing data array to ABCDEFGHIJKLMNOPQRSTUVWXYZ...

Writing 10000 bytes to pos 0...

Initializing data array to abcdefghijklmnopqrstuvwxyz...

Writing 10000 bytes to pos 10000...

Checking that the file contains "ABCDEFGHIJKLMNOPQRSTUVWXYZ" at position 0...

Okay.

Checking that the file contains "ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOPabcdefghijklmnopqrstuvwxyz" at position 9958...

Okay.

Checking that the file contains "abcdefghijklmnopqrstuvwxyzabcdefghijklmnop" at position 19958...

Okay.

Checking that the file contains "ABCDEFGHIJKLMNOPQRSTUVWXYZ" at position 3900...

Okay.

Checking that the file contains "abcdefghijklmnopqrstuvwxyz" at position 13900...

Okay.

Initializing data array to ABCDEFGHIJKLMNOPQRSTUVWXYZ...

Checking 10000 bytes at pos 0...

Initializing data array to abcdefghijklmnopqrstuvwxyz...

Checking 10000 bytes at pos 10000...

Initializing data array to ZYXWVUTSRQPONMLKJIHGFEDCBA...

Writing 10000 bytes to pos 0...

Initializing data array to zyxwvutsrqponmlkjihgfedcba...

Writing 10000 bytes to pos 10000...

Checking that the file contains "ZYXWVUTSRQPONMLKJIHGFEDCBA" at position 0...

Okay.

Checking that the file contains "ZYXWVUTSRQPONMLKJIHGFEDCBAZYXWVUTSRQPONMLKzyxwvutsrqponmlkjihgfedcba" at position 9958...

Okay.

Checking that the file contains "zyxwvutsrqponmlkjihgfedcbazyxwvutsrqponmlk" at position 19958...

Okay.

Checking that the file contains "ZYXWVUTSRQPONMLKJIHGFEDCBA" at position 3900...

Okay.

Checking that the file contains "zyxwvutsrqponmlkjihgfedcba" at position 13900...

Okay.

Initializing data array to ZYXWVUTSRQPONMLKJIHGFEDCBA...

Checking 10000 bytes at pos 0...

Initializing data array to zyxwvutsrqponmlkjihgfedcba...

Checking 10000 bytes at pos 10000...

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 40

Number of Disk Writes = 6

Instructions Executed = 7558690

Time Spent Sleeping = 29248

Total Elapsed Time = 7587938

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* OpenTest3 running \*\*\*\*\*\*\*\*\*\*

Attempting to open an existing file whose name exceeds the maximum.

Okay.

Okay.

Attempting to open an existing file using a string which crosses a page boundary.

Okay.

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 18

Number of Disk Writes = 0

Instructions Executed = 3422920

Time Spent Sleeping = 18804

Total Elapsed Time = 3441724

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* ExecTest1 running \*\*\*\*\*\*\*\*\*\*

Should print 'Hello, world'...

Hello, World!!!

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 25

Number of Disk Writes = 0

Instructions Executed = 3552908

Time Spent Sleeping = 29418

Total Elapsed Time = 3582326

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 18

Number of Disk Writes = 0

Instructions Executed = 3417723

Time Spent Sleeping = 18804

Total Elapsed Time = 3436527

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* ExecTest2 running \*\*\*\*\*\*\*\*\*\*

Attempting to exec an existing file whose name exceeds the maximum.

Okay.

Attempting to exec an existing file which is not an executable.

LoadExecutable: Bad magic number

Okay.

Attempting to open an existing file using a string which crosses a page boundary.

Should print 'Hello, world'...

Hello, World!!!

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 26

Number of Disk Writes = 0

Instructions Executed = 3572599

Time Spent Sleeping = 84720

Total Elapsed Time = 3657319

justin@Justin ~/cs333/p7

$ make && blitz -g os

kpl TestProgram4 -unsafe

asm TestProgram4.s

lddd UserRuntime.o UserSystem.o TestProgram4.o -o TestProgram4

diskUtil -i

diskUtil -a file1 file1

diskUtil -a MyProgram MyProgram

diskUtil -a TestProgram1 TestProgram1

diskUtil -a TestProgram2 TestProgram2

diskUtil -a TestProgram3 TestProgram3

diskUtil -a TestProgram4 TestProgram4

diskUtil -a file2 file2

diskUtil -a file3 file3

diskUtil -a file1234abcd file1234abcd

diskUtil -a Program1 Program1

diskUtil -a Program2 Program2

diskUtil -a FileWithVeryLongName012345678901234567890123456789 \

FileWithVeryLongName012345678901234567890123456789

Beginning execution...

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

Initializing Thread Scheduler...

Initializing Thread Manager...

Initializing Frame Manager...

AllocateRandomFrames called. NUMBER\_OF\_PHYSICAL\_PAGE\_FRAMES = 512

Initializing Disk Driver...

Initializing File Manager...

\*\*\*\*\*\*\*\*\*\* ExecTest3 running \*\*\*\*\*\*\*\*\*\*

Should print 'Hello, world' 20 times...

Hello, world 1

Hello, world 2

Hello, world 3

Hello, world 4

Hello, world 5

Hello, world 6

Hello, world 7

Hello, world 8

Hello, world 9

Hello, world 10

Hello, world 11

Hello, world 12

Hello, world 13

Hello, world 14

Hello, world 15

Hello, world 16

Hello, world 17

Hello, world 18

Hello, world 19

Hello, world 20

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

\*\*\*\*\* A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! \*\*\*\*\*

Done! The next instruction to execute will be:

001138: 09000000 ret

Number of Disk Reads = 159

Number of Disk Writes = 1

Instructions Executed = 6751191

Time Spent Sleeping = 219067

Total Elapsed Time = 6970258

justin@Justin ~/cs333/p7

$ exit

Script done on Thu, Nov 20, 2014 7:51:44 AM