

```
kauraman@ada:~/kauraman/cs510/cs333/p2$ vim Synch.c
kauraman@ada:~/kauraman/cs510/cs333/p2$ make
kpl Synch
asm Synch.s
kpl Main -unsafe
asm Main.s
ldd System.o List.o Thread.o Switch.o Synch.o Main.o Runtime.o -o os
kauraman@ada:~/kauraman/cs510/cs333/p2$ blitz -g os
Beginning execution...
===== KPL PROGRAM STARTING =====
Example Thread-based Programs...
Initializing Thread Scheduler...

-- You should see 70 lines, each consecutively numbered. --
```

```
LockTester-A = 1
LockTester-A = 2
LockTester-B = 3
LockTester-C = 4
LockTester-D = 5
LockTester-E = 6
LockTester-A = 7
LockTester-F = 8
LockTester-G = 9
LockTester-C = 10
LockTester-B = 11
LockTester-D = 12
LockTester-A = 13
LockTester-F = 14
LockTester-E = 15
LockTester-G = 16
LockTester-C = 17
LockTester-D = 18
LockTester-A = 19
LockTester-F = 20
LockTester-B = 21
LockTester-G = 22
LockTester-E = 23
LockTester-C = 24
LockTester-D = 25
LockTester-A = 26
LockTester-F = 27
LockTester-G = 28
LockTester-B = 29
LockTester-C = 30
LockTester-E = 31
LockTester-D = 32
LockTester-A = 33
LockTester-F = 34
LockTester-G = 35
```

```
LockTester-D = 32
LockTester-A = 33
LockTester-F = 34
LockTester-G = 35
LockTester-B = 36
LockTester-C = 37
LockTester-D = 38
LockTester-E = 39
LockTester-F = 40
LockTester-A = 41
LockTester-G = 42
LockTester-C = 43
LockTester-B = 44
LockTester-D = 45
LockTester-F = 46
LockTester-A = 47
LockTester-G = 48
LockTester-E = 49
LockTester-C = 50
LockTester-D = 51
LockTester-F = 52
LockTester-B = 53
LockTester-A = 54
LockTester-G = 55
LockTester-C = 56
LockTester-D = 57
LockTester-F = 58
LockTester-E = 59
LockTester-G = 60
LockTester-C = 61
LockTester-B = 62
LockTester-D = 63
LockTester-F = 64
LockTester-G = 65
LockTester-E = 66
LockTester-B = 67
LockTester-E = 68
LockTester-B = 69
LockTester-E = 70
```

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

Done! The next instruction to execute will be:

```
000EC8: 09000000    ret
Number of Disk Reads   = 0
Number of Disk Writes = 0
Instructions Executed  = 420117
Time Spent Sleeping   = 0
Total Elapsed Time    = 420117
```

kauraman@ada:~/kauraman/cs510/cs333/p2\$ |

```
kauraman@ada:~/kauraman/cs510/cs333/p2$ vim Main.c
kauraman@ada:~/kauraman/cs510/cs333/p2$ make
kp1 Main -unsafe
asm Main.s
ldddd System.o List.o Thread.o Switch.o Synch.o Main.o Runtime.o -o os
kauraman@ada:~/kauraman/cs510/cs333/p2$ blitzz -g os
Beginning execution...
```

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

Example Thread-based Programs...

Initializing Thread Scheduler...

```
Producer-A      A
A      Producer-B      B
AB     Consumer-1      |      A
B      Producer-C      C D
BC     Producer-D      D
BCD    Producer-E      E
BCDE   Consumer-2      |      B
CDE    Producer-A      A
CDEA   Consumer-3      |      C
DEA    Consumer-1      |      D
EA     Consumer-2      |      E
A      Consumer-3      |      A
      Producer-B      B
B      Producer-C      C
BC     Consumer-2      |      B
C      Producer-D      D
CD     Consumer-3      |      C
D      Consumer-1      |      D
      Producer-E      E
E      Producer-A      A
EA     Consumer-2      |      E
A      Producer-B      B
AB     Producer-C      C
ABC    Producer-D      D
ABCD   Consumer-3      |      A
BCD    Producer-E      E
BCDE   Consumer-1      |      B
CDEA   Producer-A      A
DEA    Consumer-2      |      C
DEA    Consumer-3      |      D
EA     Producer-B      B
AB     Consumer-1      |      E
AB     Consumer-2      |      A
B      Producer-C      C
BC     Consumer-3      |      B
C      Consumer-1      |      C
      Producer-D      D
D      Consumer-2      |      D
      Producer-E      E
E      Consumer-3      |      E
```



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```

A      Consumer-3
      Producer-B      B
B      Producer-C      C
BC     Consumer-2
C      Producer-D      D
CD     Consumer-3
D      Consumer-1
      Producer-E      E
E      Producer-A      A
EA     Consumer-2
A      Producer-B      B
AB     Producer-C      C
ABC    Producer-D      D
ABCD   Consumer-3
BCD    Producer-E      E
BCDE   Consumer-1
CDEA   Producer-A      A
DEA    Consumer-2
DEA    Consumer-3
EA     Producer-B      B
AB     Consumer-1
AB     Consumer-2
B      Producer-C      C
BC     Consumer-3
C      Consumer-1
      Producer-D      D
D      Consumer-2
      Producer-E      E
E      Consumer-3
      Producer-A      A
A      Producer-C      C
AC     Producer-B      B
ACB    Consumer-1
CBD    Producer-D      D
BD     Consumer-2
BDE    Producer-E      E
BDE    Consumer-3
DE     Consumer-1
E      Consumer-2

```

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

Done! The next instruction to execute will be:

```

000EC8: 09000000    ret
Number of Disk Reads   = 0
Number of Disk Writes  = 0
Instructions Executed   = 254111
Time Spent Sleeping    = 0
Total Elapsed Time     = 254111

```

kauraman@ada:~/kauraman/cs510/cs333/p2\$ |



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```
kaur aman@ada:~/kaur aman/cs510/cs333/p2$
```