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Memory Image Loader (mimgload) 0.1
The Portland L4 Kernel (pork), February 2007
page fault handler: eip=4011af, error=4, fault addr=4011af
sigma0 case succeeded!
page fault handler: eip=5018fe, error=4, fault addr=5018fe
page fault handler: eip=401000, error=6, fault addr=402850
sigma0 case succeeded!
page fault handler: eip=40130b, error=6, fault addr=b8640
sigma0 case succeeded!
page fault handler: eip=4015dc, error=4, fault addr=400000
sigma0 case succeeded!
This is a simple sigma0 server
sigma0 utcb is at: 100100
Now waiting for first message ...
First message from c4001
sigma0: received msg (tag=ffe40002) from c4001
pagefault c4001, mr1=5018fe, mr2=5018fe
page fault handler: eip=5012a4, error=6, fault addr=502fec
sigma0: received msg (tag=ffe20002) from c4001
pagefault c4001, mr1=502fec, mr2=5012a4
page fault handler: eip=5019e9, error=6, fault addr=505044
sigma0: received msg (tag=ffe20002) from c4001
pagefault c4001, mr1=505044, mr2=5019e9
page fault handler: eip=501a5a, error=6, fault addr=b8692
sigma0: received msg (tag=ffe20002) from c4001
pagefault c4001, mr1=b8692, mr2=501a5a
page fault handler: eip=501d2b, error=4, fault addr=5000bb
sigma0: received msg (tag=ffe40002) from c4001
pagefault c4001, mr1=5000bb, mr2=501d2b
This is a root server!
----Displaying Kernel Interface Page mapped at 0x108000
The Portland L4 Kernel (pork), February 2007
Kernel      : pork, id 0.0, version 1.2, generated Feb 4, 2007
Magic Number : L4i2K
API         : version 0x87010000, flags 0x0 (little endian, 32 bit API)
Memory Descriptors:
  0x0: [0x0 - 0xbfffffff] 0x201
  0x1: [0x0 - 0xffffffff] 0x4
  0x2: [0xa0000 - 0xfffff] 0x4
  0x3: [0x0 - 0x9fbff] 0x1
  0x4: [0x9fc00 - 0x9ffff] 0x1
  0x5: [0xf0000 - 0xfffff] 0x1
  0x6: [0x100000 - 0x1fdffff] 0x1
  0x7: [0x1fe0000 - 0x1ffffff] 0x1
  0x8: [0xfffc0000 - 0xffffffff] 0x1
  0x9: [0x0 - 0x3fff] 0x2e
  0xa: [0x100000 - 0x10fbff] 0x2e
  0xb: [0x400000 - 0x402bff] 0x2e
  0xc: [0x500000 - 0x5053ff] 0x2e
  0xd: [0x110000 - 0x3fffff] 0x2
  0xe: [0x403000 - 0x4eefff] 0x2
ProcessorInfo : 1 processors, ProcDesc size=8
  Processor 0 : external 0MHz, frequency 0MHz
VirtRegInfo   : 64 MRs
ThreadInfo    : user base 48, system base 16, thread bits 17
UtcInfo       : s=12, a=9, multiplier=1
KipAreaInfo   : size=12
PageInfo      : supported access rights rw-, page sizes: 4K 4M

Privileged System Calls:
SpaceControl  : 0x108580   ThreadControl   : 0x108583
ProcessorControl : 0x108586   MemoryControl  : 0x108589

System Calls:
Ipc           : 0x10858c   Lipc           : 0x10858f

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Unmap : 0x108592 ExchangeRegisters : 0x108595
ThreadSwitch : 0x108598 Schedule : 0x10859b

page fault handler: eip=5012d8, error=6, fault addr=503000
sigma0: received msg (tag=ffe20002) from c4001
pagefault c4001, mrl=503000, mr2=5012d8
page fault handler: eip=5012e2, error=6, fault addr=504020
sigma0: received msg (tag=ffe20002) from c4001
pagefault c4001, mrl=504020, mr2=5012e2
spawning ping: tid=190001, space=190001, scheduler=c4001, pager=c0001
created ping (tid 190001) 1
configured space for ping -> 1
Error code is 0, control=0
activated ping: 1
Pager is c0001
Error code is 0
starting ping: ip=501086, sp=505040
thread ping (tid 190001) is now running
spawning pong: tid=320001, space=320001, scheduler=c4001, pager=c0001
created pong (tid 320001) 1
configured space for pong -> 1
Error code is 0, control=0
activated pong: 1
Pager is c0001
Error code is 0
starting pong: ip=501029, sp=504020
thread pong (tid 320001) is now running
keyboard id = 4001, my id = c4001
page fault handler: eip=501086, error=4, fault addr=501086
page fault handler: eip=501029, error=4, fault addr=501029
associate produces 1
sigma0: received msg (tag=ffe40002) from 190001
pagefault 190001, mrl=501086, mr2=501086
sigma0: received msg (tag=ffe40002) from 320001
pagefault 320001, mrl=501029, mr2=501029
page fault handler: eip=501086, error=6, fault addr=50503c
page fault handler: eip=501029, error=6, fault addr=50401c
sigma0: received msg (tag=ffe20002) from 190001
pagefault 190001, mrl=50503c, mr2=501086
sigma0: received msg (tag=ffe20002) from 320001
pagefault 320001, mrl=50401c, mr2=501029
page fault handler: eip=501078, error=6, fault addr=504fd4
page fault handler: eip=50102d, error=4, fault addr=503000
sigma0: received msg (tag=ffe20002) from 190001
pagefault 190001, mrl=504fd4, mr2=501078
sigma0: received msg (tag=ffe40002) from 320001
pagefault 320001, mrl=503000, mr2=50102d
page fault handler: eip=501d2b, error=4, fault addr=500000
sigma0: received msg (tag=ffe40002) from 190001
pagefault 190001, mrl=500000, mr2=501d2b
page fault handler: eip=501ab1, error=4, fault addr=502ffc
sigma0: received msg (tag=ffe40002) from 190001
pagefault 190001, mrl=502ffc, mr2=501ab1
page fault handler: eip=501ad2, error=6, fault addr=b8eb2
sigma0: received msg (tag=ffe20002) from 190001
pagefault 190001, mrl=b8eb2, mr2=501ad2
, 0, 0, 693224004
0, 1, 0, 685854100
0, 2, 0, 746434458
0, 3, 0, 677379332
0, 4, 0, 788177668
...

A demo using “pork”

