Subject: Memory controller test results (v6)
Posted by Balbir Singh on Sun, 19 Aug 2007 09:46:58 GMT
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Hi, Andrew,

Here are more test results for v6 of the memory controller posted at
http://lkml.org/lkml/2007/8/17/69

The tests were run under three different configurations

1. disabled - the memory controller was not compiled in
2. notmnted - the memory controller was compiled in, but the container
   filesystem was not mounted (one could view this configuration as
   a memory controller with no limits enforced)
3. limit400 - the memory controller was compiled in and the container
   running the tests was limited to 400 MB of memory usage.

Tests run
---
1. lmbench
2. ltp
3. vmmstress
4. aim9
5. memtest (succeeded)

Results posted
---
1. lmbench
2. ltp
3. vmmstress
4. aim9

Lmbench

L M B E N C H 2 . 0 S U M M A R Y

Basic system parameters

Host OS Description Mhz

--- --- --- ---
disabled Linux 2.6.23- x86_64-linux-gnu 1993

limit400 Linux 2.6.23- x86_64-linux-gnu 1993
notmnted Linux 2.6.23- x86_64-linux-gnu 1993

Processor, Processes - times in microseconds - smaller is better
---
Host OS Mhz null null open selct sig sig fork exec sh
call I/O stat clos TCP inst hndl proc proc proc
--- --- --- --- --- --- --- --- --- --- --- --- ---
disabled Linux 2.6.23- 1993 0.08 0.27 2.74 3.96 16.0 0.23 1.55 128. 479. 5572
limit400 Linux 2.6.23- 1993 0.08 0.30 3.00 4.54 17.7 0.23 1.74 139. 537. 5825
notmnted Linux 2.6.23- 1993 0.08 0.27 2.78 4.23 16.0 0.23 1.57 129. 527. 5809

Context switching - times in microseconds - smaller is better
---
Host OS 2p/0K 2p/16K 2p/64K 8p/16K 8p/64K 16p/16K 16p/64K
ctxsw ctxsw ctxsw ctxsw ctxsw ctxsw ctxsw
--- --- --- --- --- --- --- --- ---
disabled Linux 2.6.23- 3.380 4.5900 5.5200 5.4100 8.7800 5.68000 8.89000
limit400 Linux 2.6.23- 4.180 4.3400 5.1100 4.7900 7.7200 5.36000 8.18000
notmnted Linux 2.6.23- 4.100 3.3600 5.1100 5.0200 8.9200 5.08000 9.02000

Local Communication latencies in microseconds - smaller is better
---
Host OS 2p/0K Pipe AF UDP RPC/ TCP RPC/ TCP
ctxsw UNIX UDP TCP conn
--- --- --- --- --- --- --- --- --- ---
disabled Linux 2.6.23- 3.380 11.8 18.6 20.0 23.2 23.3 26.8 34.5
limit400 Linux 2.6.23- 4.180 11.0 21.0 22.3 23.7 23.1 24.7 37.9
notmnted Linux 2.6.23- 4.100 11.1 18.7 18.4 22.7 22.8 26.4 41.0

File & VM system latencies in microseconds - smaller is better
---
Host OS 0K File 10K File Mmap Prot Page
Create Delete Create Delete Latency Fault Fault
--- --- --- --- --- --- --- --- ---
disabled Linux 2.6.23- 18.4 14.9 228.2 73.2 2998.0 0.375 1.00000
limit400 Linux 2.6.23- 17.9 17.6 240.0 77.6 1874.0 0.496 2.00000
notmnted Linux 2.6.23- 18.9 18.0 188.6 74.9 3044.0 0.467 2.00000

Local Communication bandwidths in MB/s - bigger is better

Host OS Pipe AF TCP File Mmap Bcopy Bcopy Mem Mem
UNIX reread reread (libc) (hand) read write
--- --- --- --- --- --- --- --- --- --- ---
disabled Linux 2.6.23- 740. 1210 816. 1276.0 2534.0 907.8 877.4 2152 1247.
limit400 Linux 2.6.23- 591. 1186 826. 1280.4 2457.4 1117.8 861.7 2634 1536.
notmnted Linux 2.6.23- 691. 1196 800. 1434.1 1761.6 854.2 827.9 1876 1258.

Memory latencies in nanoseconds - smaller is better
(WARNING - may not be correct, check graphs)

Host OS Mhz L1 $ L2 $ Main mem Guesses
--- --- --- --- --- --- ---
disabled Linux 2.6.23- 1993 1.506 6.0270 97.5
limit400 Linux 2.6.23- 1993 1.506 6.0280 97.5
notmnted Linux 2.6.23- 1993 1.507 6.0280 97.5

LTP

Note, only ltp failures are posted (no new failures were seen due
to the memory controller)

disabled
---

clone06 0 WARN : sprintf() failed
clone06 1 BROK : Unexpected signal 11 received.
fcntl27 1 BROK : Unexpected signal 11 received.
fcntl28 1 BROK : Unexpected signal 11 received.
kill05 0 INFO : WARNING: shared memory deletion failed.
mincore01 4 FAIL : call succeeded unexpectedly
setrlimit03 1 FAIL : call succeeded unexpectedly
swapon02 0 WARN : Failed swapon for file swapfile31 returned -96
swapon02 0 WARN : Failed to turn off swap files. system reboot after execution of LTP test suite is recommended
swapon02 0 WARN : Failed to turn off swap files. system reboot after execution of LTP test suite is recommended
swapon02 3 BROK : Cleanup failed, quitting the test
swapon02 4 BROK : Remaining cases broken
INFO: pan reported some tests FAIL

limit400
---

clone06 0 WARN : sprintf() failed
clone06 1 BROK : Unexpected signal 11 received.
fcntl27 1 BROK : Unexpected signal 11 received.
fcntl28 1 BROK : Unexpected signal 11 received.
kill05 0 INFO : WARNING: shared memory deletion failed.
mincore01 4 FAIL : call succeeded unexpectedly
setrlimit03 1 FAIL : call succeeded unexpectedly
swapon02 0 WARN : Failed swapon for file swapfile31 returned -96
swapon02 0 WARN : Failed to turn off swap files. system reboot after execution of LTP test suite is recommended

swapon02 0 WARN : Failed to turn off swap files. system reboot after execution of LTP test suite is recommended
swapon02 3 BROK : Cleanup failed, quitting the test
swapon02 4 BROK : Remaining cases broken
INFO: pan reported some tests FAIL

notmnted
---

clone06 0 WARN : sprintf() failed
clone06 1 BROK : Unexpected signal 11 received.
fcntl27 1 BROK : Unexpected signal 11 received.
fcntl28 1 BROK : Unexpected signal 11 received.
kill05 0 INFO : WARNING: shared memory deletion failed.
mincore01 4 FAIL : call succeeded unexpectedly
setrlimit03 1 FAIL : call succeeded unexpectedly
swapon02 0 WARN : Failed swapon for file swapfile31 returned -96
swapon02 0 WARN : Failed to turn off swap files. system reboot after execution of LTP test suite is recommended
swapon02 0 WARN : Failed to turn off swap files. system reboot after execution of LTP test suite is recommended
swapon02 3 BROK : Cleanup failed, quitting the test
swapon02 4 BROK : Remaining cases broken
INFO: pan reported some tests FAIL

VMMSTRESS

The vmmstress function calls the following ltp tests: mmstress, mmap1.c, mmap2.c and mmap3.c.

disabled
---

vmmstress1

Test Start Time: Sat Aug 18 13:06:26 2007

Testcase Result Exit Value
--- --- ---
mmstress PASS 0
mmap1 PASS 0
mmap2 PASS 0
mmap3 PASS 0

Total Tests: 4

Total Failures: 0
Kernel Version: 2.6.23-rc2-mm2-autokern1
Machine Architecture: x86_64

vmmstress2

Test Start Time: Sat Aug 18 12:06:23 2007

Testcase	Result	Exit Value
mtest01	PASS	0
mtest01	PASS	0
mtest01	PASS	0
mtest01	PASS	0
mtest01	PASS	0
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mtest01	PASS	0
mtest01	PASS	0
mtest01	FAIL	14

Total Tests: 1
Total Failures: 1
Kernel Version: 2.6.23-rc2-mm2-autokern1
Machine Architecture: x86_64

limit400
---

vmmstress1

Test Start Time: Sat Aug 18 08:37:36 2007

Testcase	Result	Exit Value
mmstress	PASS	0
mmap1	PASS	0
mmap2	PASS	0
mmap3	PASS	0

Total Tests: 4
Total Failures: 0
Kernel Version: 2.6.23-rc2-mm2-autokern1
Machine Architecture: x86_64

vmmstress2

Test Start Time: Sat Aug 18 07:37:29 2007

Testcase	Result	Exit Value
mtest01	PASS	0
mtest01	PASS	0
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mtest01 PASS 0
mtest01 FAIL 14

Total Tests: 1
Total Failures: 1
Kernel Version: 2.6.23-rc2-mm2-autokern1
Machine Architecture: x86_64

notmnted
---

vmmstress1

Test Start Time: Sat Aug 18 03:05:16 2007

Testcase	Result	Exit Value
mmstress	PASS	0
mmap1	PASS	0
mmap2	PASS	0
mmap3	PASS	0

Total Tests: 4

Total Failures: 0
Kernel Version: 2.6.23-rc2-mm2-autokern1
Machine Architecture: x86_64

vmmstress2

Test Start Time: Sat Aug 18 02:05:14 2007

Testcase	Result	Exit Value
mtest01	PASS	0
mtest01	PASS	0
mtest01	PASS	0
mtest01	PASS	0
mtest01	PASS	0
mtest01	PASS	0
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mtest01 PASS 0
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mtest01 PASS 0
mtest01 FAIL 14

Total Tests: 1
Total Failures: 1
Kernel Version: 2.6.23-rc2-mm2-autokern1
Machine Architecture: x86_64

AIM9
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disabled

Starting time: Sat Aug 18 14:06:53 2007
Projected Run Time: 0:08:00
Projected finish: Sat Aug 18 14:14:53 2007

Test Number	Test Name	Elapsed Time (sec)	Iteration Count	Iteration Rate (loops/sec)	Operation Rate (ops/sec)	
1	creat-clo	60.01	9150	152.47459	152474.59	File Creations and Closes/second
2	page_test	60.00	6803	113.38333	192751.67	System Allocations & Pages/second
3	brk_test	60.01	8479	141.29312	2401983.00	System Memory Allocations/second
4	jmp_test	60.01	983432	16387.80203	16387802.03	Non-local gotos/second
5	signal_test	60.01	27402	456.62390	456623.90	Signal Traps/second
6	exec_test	60.02	2789	46.46784	232.34	Program Loads/second
7	fork_test	60.03	2736	45.57721	4557.72	Task Creations/second
8	link_test	60.05	45537	758.31807	47774.04	Link/Unlink Pairs/second

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Projected Completion time: Sat Aug 18 14:14:53 2007
Actual Completion time: Sat Aug 18 14:14:53 2007
Difference: 0:00:00

limit400

Starting time: Sat Aug 18 09:38:02 2007
Projected Run Time: 0:08:00
Projected finish: Sat Aug 18 09:46:02 2007

Test Number	Test Name	Elapsed Time (sec)	Iteration Count	Iteration Rate (loops/sec)	Operation Rate (ops/sec)	
1	creat-clo	60.01	7878	131.27812	131278.12	File Creations and Closes/second
2	page_test	60.00	5411	90.18333	153311.67	System Allocations & Pages/second
3	brk_test	60.02	5098	84.93835	1443952.02	System Memory Allocations/second
4	jmp_test	60.00	983192	16386.53333	16386533.33	Non-local gotos/second
5	signal_test	60.01	28628	477.05382	477053.82	Signal Traps/second
6	exec_test	60.02	2628	43.78540	218.93	Program Loads/second
7	fork_test	60.01	2510	41.82636	4182.64	Task Creations/second
8	link_test	60.02	39902	664.81173	41883.14	Link/Unlink Pairs/second

Projected Completion time: Sat Aug 18 09:46:02 2007
Actual Completion time: Sat Aug 18 09:46:02 2007
Difference: 0:00:00

notmnted

Starting time: Sat Aug 18 04:06:05 2007
Projected Run Time: 0:08:00
Projected finish: Sat Aug 18 04:14:05 2007

Test Number	Test Name	Elapsed Time (sec)	Iteration Count	Iteration Rate (loops/sec)	Operation Rate (ops/sec)	
1	creat-clo	60.02	9164	152.68244	152682.44	File Creations and Closes/second
2	page_test	60.01	5767	96.10065	163371.10	System Allocations & Pages/second
3	brk_test	60.01	6147	102.43293	1741359.77	System Memory Allocations/second
4	jmp_test	60.01	983397	16387.21880	16387218.80	Non-local gotos/second
5	signal_test	60.01	26970	449.42510	449425.10	Signal Traps/second
6	exec_test	60.02	2638	43.95202	219.76	Program Loads/second
7	fork_test	60.01	2575	42.90952	4290.95	Task Creations/second

8 link_test 60.01 49737 828.81186 52215.15 Link/Unlink Pairs/second

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Projected Completion time: Sat Aug 18 04:14:05 2007
Actual Completion time: Sat Aug 18 04:14:05 2007
Difference: 0:00:00

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Warm Regards,
Balbir Singh
Linux Technology Center
IBM, ISTL

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Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containers