Subject: Re: RSS controller v2 Test results (Imbench) Posted by Balbir Singh on Fri, 18 May 2007 04:07:22 GMT View Forum Message <> Reply to Message

Rik van Riel wrote:

> Balbir Singh wrote:

>

>> A meaningful container size does not hamper performance. I am in the >> process

> of getting more results (with varying container sizes). Please let me >> know

>> what you think of the results? Would you like to see different

>> benchmarks/

>> tests/configuration results?

>

> AIM7 results might be interesting, especially when run to crossover.

I'll try and get hold of AIM7, I have some AIM9 results (please see the attachment, since the results overflow 80 columns, I've attached them).

> OTOH, AIM7 can make the current VM explode spectacularly :)

I saw it swap out 1.4GB of memory in one run, on my 2GB memory test
 system. That's right, it swapped out almost 75% of memory.

This would make a good test case for the RSS and the unmapped page cache controller. Thanks for bringing it to my attention.

> Presumably all the AIM7 processes got stuck in the pageout code
> simultaneously and all decided they needed to swap some pages out.
> However, the shell got stuck too so I could not get sysrq output
> on time.

>

oops! I wonder if AIM7 creates too many processes and exhausts all memory. I've seen a case where during an upgrade of my tetex on my laptop, the setup process failed and continued to fork processes filling up 4GB of swap.

I am trying out a little VM patch to fix that now, carefully watching
 vmstat output. Should be fun...

>

VM debugging is always fun!

Warm Regards, Balbir Singh Linux Technology Center IBM, ISTL

| Test Test Elapsed Iteration Iteration Operation Number Name Time (sec) Count Rate (loops/sec) Rate (ops/sec) | | | | |
|---|--|--|--|--|
| Number Name Time (sec) Count Rate (loops/sec) Rate (ops/sec) | | | | |
| 1 creat-clo 60.00 8885 148.08333 148083.33 File Creations and Closes/second | | | | |
| (256 MB container) 1 creat-clo 60.01 8547 142.42626 142426.26 File Creations and Closes/second | | | | |
| (unlimited container) | | | | |
| 1 creat-clo 60.01 8632 143.84269 143842.69 File Creations and Closes/second | | | | |
| (container not mounted) | | | | |
| 2 page_test 60.00 6068 101.13333 171926.67 System Allocations & | | | | |
| Pages/second (256 MB container) | | | | |
| 2 page_test 60.00 5275 87.91667 149458.33 System Allocations & | | | | |
| Pages/second (unlimited container) | | | | |
| 2 page_test 60.01 5411 90.16831 153286.12 System Allocations & | | | | |
| Pages/second (container not mounted) | | | | |
| 3 brk_test 60.01 9151 152.49125 2592351.27 System Memory | | | | |
| Allocations/second (256 MB container) | | | | |
| 3 brk_test 60.02 7404 123.35888 2097100.97 System Memory | | | | |
| Allocations/second (unlimited container) | | | | |
| 3 brk_test 60.01 8294 138.21030 2349575.07 System Memory | | | | |
| Allocations/second (container not mounted) | | | | |
| 4 jmp_test 60.01 983062 16381.63639 16381636.39 Non-local gotos/second (256 | | | | |
| MB container) | | | | |
| 4 jmp_test 60.00 983084 16384.73333 16384733.33 Non-local gotos/second | | | | |
| (unlimited container) | | | | |
| 4 jmp_test 60.00 982904 16381.73333 16381733.33 Non-local gotos/second | | | | |
| (container not mounted) | | | | |
| 5 signal_test 60.01 28013 466.80553 466805.53 Signal Traps/second (256 MB | | | | |
| container) | | | | |
| 5 signal_test 60.00 28360 472.66667 472666.67 Signal Traps/second (unlimited | | | | |
| container) | | | | |
| 5 signal_test 60.01 28593 476.47059 476470.59 Signal Traps/second (container | | | | |
| not mounted) | | | | |
| 6 exec_test 60.02 2596 43.25225 216.26 Program Loads/second (256 MB | | | | |
| container) | | | | |
| 6 exec_test 60.02 2539 42.30257 211.51 Program Loads/second (unlimited | | | | |
| container) | | | | |
| 6 exec_test 60.01 2536 42.25962 211.30 Program Loads/second (container | | | | |
| not mounted) | | | | |
| 7 fork_test 60.01 2118 35.29412 3529.41 Task Creations/second (256 MB | | | | |
| container) | | | | |

| 7 fork_test | 60.03 | 2130 35.48226 | 3548.23 Task Creations/second (unlimited | |
|---------------------------|-------|-----------------|---|--|
| container) 7 fork_test | 60.01 | 2130 35.49408 | 3549.41 Task Creations/second (container | |
| not mounted) | | | | |
| 8 link_test | 60.02 | 47760 795.73476 | 50131.29 Link/Unlink Pairs/second (256 MB | |
| container) | | | | |
| 8 link_test | 60.02 | 48156 802.33256 | 50546.95 Link/Unlink Pairs/second | |
| (unlimited container) | | | | |
| 8 link_test | 60.00 | 49778 829.63333 | 52266.90 Link/Unlink Pairs/second | |
| (container not mounted) | | | | |
| | | | | |

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