
Subject: poor performance in openvz kernels...
Posted by [devonblzx](#) on Fri, 13 Apr 2007 06:20:41 GMT
[View Forum Message](#) <> [Reply to Message](#)

I have a new Dual Quad-Core Clovertown (E5310) with a RAID5 and when I run unixbench (the wht variant) I get these results...

Default CentOS4 Kernel (2.6.9smp):
Start Benchmark Run: Thu Apr 12 22:01:07 EDT 2007
22:01:07 up 1 min, 1 user, load average: 0.20, 0.08, 0.03

End Benchmark Run: Thu Apr 12 22:11:14 EDT 2007
22:11:14 up 11 min, 1 user, load average: 27.25, 10.54, 4.39

INDEX VALUES			
TEST	BASELINE	RESULT	INDEX
Dhrystone 2 using register variables	376783.7	73062884.2	1939.1
Double-Precision Whetstone	83.1	1452.6	174.8
Execl Throughput	188.3	11972.2	635.8
File Copy 1024 bufsize 2000 maxblocks	2672.0	90568.0	339.0
File Copy 256 bufsize 500 maxblocks	1077.0	22404.0	208.0
File Read 4096 bufsize 8000 maxblocks	15382.0	1112686.0	723.4
Pipe-based Context Switching	15448.6	1536903.0	994.8
Pipe Throughput	111814.6	7310880.6	653.8
Process Creation	569.3	48057.5	844.2
Shell Scripts (8 concurrent)	44.8	2787.1	622.1
System Call Overhead	114433.5	8538136.8	746.1
	=====		
FINAL SCORE		586.1	

Kernel 2.6.18-stab027-smp:
Start Benchmark Run: Thu Apr 12 21:29:33 EDT 2007
21:29:33 up 1 min, 1 user, load average: 0.22, 0.11, 0.04

End Benchmark Run: Thu Apr 12 21:39:43 EDT 2007
21:39:43 up 11 min, 1 user, load average: 25.45, 10.04, 4.23

INDEX VALUES			
TEST	BASELINE	RESULT	INDEX
Dhrystone 2 using register variables	376783.7	71079686.4	1886.5
Double-Precision Whetstone	83.1	1456.2	175.2
Execl Throughput	188.3	4733.3	251.4
File Copy 1024 bufsize 2000 maxblocks	2672.0	120019.0	449.2
File Copy 256 bufsize 500 maxblocks	1077.0	32769.0	304.3

File Read 4096 bufsize 8000 maxblocks	15382.0	1125105.0	731.4
Pipe-based Context Switching	15448.6	415588.7	269.0
Pipe Throughput	111814.6	6285422.1	562.1
Process Creation	569.3	11449.0	201.1
Shell Scripts (8 concurrent)	44.8	1505.2	336.0
System Call Overhead	114433.5	8894040.1	777.2
	=====		
FINAL SCORE			416.8

Any idea why it would be such a big performance loss? It seems like the system has trouble with Pipe-based Context Switching, Process Creation, Shell Scripts and Execl Throughput.

I know that 2.6.18 has a problem with the CPU scheduler but I tested it on the rhel4 stable openvz 2.6.9 and turned up even worse results (around 350 final score).
