Subject: Re: poor performance in openvz kernels...
Posted by hzqbbc on Sun, 01 Nov 2009 14:34:33 GMT
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This post is very old (May 2007) but we still encounter the performance problem.

Unixbench-4.1.0-wht-2 result different from 2.6.18-128.2.1.el5.028stab064.7 and 2.6.18-128.el5 (standard RHEL5 kernel), the difference is huge.

After searching openvz forum, i think i'm closing to the answer, but not sure, the huge perf loss may due to openvz UBC accounting.

So my question is *WHEN* openvz dev team will fix this problem? dev said he would release new kernel to archive better perf but i try the latest 2.6.18-128.2.1.el5 (stab064.7) and got no improvement.

My bench result:

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BYTE UNIX Benchmarks (Version 4.1-wht.2, 8 threads)
System -- Linux vz 2.6.18-128.el5 #1 SMP Wed Jan 21 10:41:14 EST 2009 x86_64 x86_64
x86_64 GNU/Linux
             65672880   3609080  58673952   6% /


End Benchmark Run: Mon Nov  2 06:18:21 CST 2009
 06:18:21 up 13 min,  2 users,  load average: 31.71, 12.44, 5.31
```

	INDEX VALUES		
TEST	BASELINE	RESULT	INDEX
Dhrystone 2 using register variables	376783.7	36719630.6	974.6
Double-Precision Whetstone	83.1	1298.6	156.3
Execl Throughput	188.3	20191.8	1072.3
File Copy 1024 bufsize 2000 maxblocks	2672.0	177441.0	664.1
File Copy 256 bufsize 500 maxblocks	1077.0	43517.0	404.1
File Read 4096 bufsize 8000 maxblocks	15382.0	1771809.0	1151.9
Pipe-based Context Switching	15448.6	2739102.5	1773.0
Pipe Throughput	111814.6	11210018.3	1002.6
Process Creation	569.3	64281.4	1129.1
System Call Overhead	114433.5	19818827.5	1731.9

```
                                    =========
    FINAL SCORE                              840.3


================================================================
BYTE UNIX Benchmarks (Version 4.1-wht.2, 8 threads)
```

System -- Linux vz 2.6.18-128.2.1.el5.028stab064.7 #1 SMP Wed Aug 26 15:47:17 MSD 2009
x86_64 x86_64 x86_64 GNU/Linux
                 65672880   3648024   58635008   6% /

Start Benchmark Run: Mon Nov 2 06:22:56 CST 2009
 06:22:56 up 1 min, 1 user, load average: 2.20, 0.88, 0.32

End Benchmark Run: Mon Nov 2 06:33:02 CST 2009
 06:33:02 up 11 min, 2 users, load average: 27.90, 11.13, 4.73

                INDEX VALUES
TEST   BASELINE   RESULT   INDEX

Dhrystone 2 using register variables   376783.7 36500265.7   968.7
Double-Precision Whetstone   83.1   1295.2   155.9
Execl Throughput   188.3   3618.3   192.2
File Copy 1024 bufsize 2000 maxblocks   2672.0   167840.0   628.1
File Copy 256 bufsize 500 maxblocks   1077.0   41757.0   387.7
File Read 4096 bufsize 8000 maxblocks   15382.0 1752507.0   1139.3
Pipe-based Context Switching   15448.6 2243795.1   1452.4
Pipe Throughput   111814.6 14018287.3   1253.7
Process Creation   569.3   9315.9   163.6
Shell Scripts (8 concurrent)   44.8   1147.4   256.1
System Call Overhead   114433.5 20733248.3   1811.8
                              =========
     FINAL SCORE   538.9