

freebsd-performance: RE: Performance Problems.. Server hardware smoked by \$500 box?

## RE: Performance Problems.. Server hardware smoked by \$500 box?

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*Date:* 09/12/03

To: "'Marc Slemko'" <[marcs@znep.com](mailto:marcs@znep.com)>

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> *The first step would be to try to quantify the performance  
> difference in serving the actual web pages. Find a single  
> page that you think is slow on the production system and that  
> can be accessed without having to be part of a session, and  
> quantify the performance difference for that page. Remember  
> you don't care about high load, just a single user request.  
> You could use apachebench ("ab", comes with apache...  
> something like "ab -c 1 -n 20  
> <http://server/path/to/page>") or any simple command line tool  
> that you can time (eg. repeatedly run "time GET  
<http://server/path/to/page>"). Do this from as near as possible to the  
box you are running the web browser that sees the slowness loading.*

I ran a couple of tests, and put the one you requested along with one of the more amusing ones to me, below. These request a page that uses PHP sessions (the sessions are kept over NFS) and a couple of database queries. All 3 servers use the same database, tho obviously the database server handles them locally along with handling the files locally vs over NFS like the other two would.

I think to sidestep any more testing that may/may not give us more clues, what we're going to press forward with is trying to get another >133Mhz FSB setup in here since they're so cheap and just testing to see if we see similar results if we set it's harddrive up as a mirror of the production web machine. If by using the same OS installation, and only change the underlying hardware, I'd say that would more-than-likely tell us if this is strictly a hardware issue, assuming it performs equally well as the development machine while using the production machine's setup.

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Running "ab -c 1 -n 10" on these machines:

> *Production Web over NFS*

Benchmarking 209.198.22.161 (be patient).....done

Server Software: Apache/2.0

Server Hostname: 209.198.22.161

Server Port: 80

Document Length: 67769 bytes

Concurrency Level: 1

Time taken for tests: 4.918 seconds

Complete requests: 10

Failed requests: 0

Broken pipe errors: 0

Total transferred: 681350 bytes

HTML transferred: 677690 bytes

Requests per second: 2.03 [#/sec] (mean)

Time per request: 491.80 [ms] (mean)

Time per request: 491.80 [ms] (mean, across all concurrent requests)

Transfer rate: 138.54 [Kbytes/sec] received

> *Production DB serving pages locally*

Benchmarking 209.198.22.35 (be patient).....done

Server Software: Apache/1.3.27

Server Hostname: 209.198.22.35

Server Port: 80

Document Length: 68585 bytes

Concurrency Level: 1

Time taken for tests: 2.232 seconds

Complete requests: 10

Failed requests: 0

Broken pipe errors: 0

Total transferred: 689870 bytes

HTML transferred: 685850 bytes

Requests per second: 4.48 [#/sec] (mean)

Time per request: 223.20 [ms] (mean)

Time per request: 223.20 [ms] (mean, across all concurrent requests)

Transfer rate: 309.08 [Kbytes/sec] received

> *Development Server over NFS*

Benchmarking dev.clickcomworks.net (be patient).....done

Server Software: Apache/1.3.27

Server Hostname: dev.clickcomworks.net

Server Port: 8000

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Document Length: 68237 bytes

Concurrency Level: 1  
Time taken for tests: 1.799 seconds  
Complete requests: 10  
Failed requests: 0  
Broken pipe errors: 0  
Total transferred: 686380 bytes  
HTML transferred: 682370 bytes  
Requests per second: 5.56 [#/sec] (mean)  
Time per request: 179.90 [ms] (mean)  
Time per request: 179.90 [ms] (mean, across all concurrent requests)  
Transfer rate: 381.53 [Kbytes/sec] received

Now with "ab -c 10 -n 10", which is just beautiful

>*Production Web over NFS*  
Benchmarking 209.198.22.161 (be patient).....done  
Server Software: Apache/2.0

Server Hostname: 209.198.22.161  
Server Port: 80

Document Length: 67769 bytes

Concurrency Level: 100  
Time taken for tests: 6.424 seconds  
Complete requests: 10  
Failed requests: 0  
Broken pipe errors: 0  
Total transferred: 817620 bytes  
HTML transferred: 813228 bytes  
Requests per second: 1.56 [#/sec] (mean)  
Time per request: 64240.00 [ms] (mean)  
Time per request: 642.40 [ms] (mean, across all concurrent requests)  
Transfer rate: 127.28 [Kbytes/sec] received

>*Production DB over NFS*  
Benchmarking 209.198.22.35 (be patient).....done  
Server Software: Apache/1.3.27

Server Hostname: 209.198.22.35  
Server Port: 80

Document Length: 68585 bytes

Concurrency Level: 10  
Time taken for tests: 34.430 seconds  
Complete requests: 100

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Failed requests: 0  
Broken pipe errors: 0  
Total transferred: 6898700 bytes  
HTML transferred: 6858500 bytes  
Requests per second: 2.90 [#/sec] (mean)  
Time per request: 3443.00 [ms] (mean)  
Time per request: 344.30 [ms] (mean, across all concurrent requests)  
Transfer rate: 200.37 [Kbytes/sec] received

>*Development over NFS*

Benchmarking dev.clickcomworks.net (be patient).....done  
Server Software: Apache/1.3.27

Server Hostname: dev.clickcomworks.net  
Server Port: 8000

Document Length: 68237 bytes

Concurrency Level: 100  
Time taken for tests: 2.093 seconds  
Complete requests: 10  
Failed requests: 0  
Broken pipe errors: 0  
Total transferred: 1046656 bytes  
HTML transferred: 1040240 bytes  
Requests per second: 4.78 [#/sec] (mean)  
Time per request: 20930.00 [ms] (mean)  
Time per request: 209.30 [ms] (mean, across all concurrent requests)  
Transfer rate: 500.07 [Kbytes/sec] receive

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freebsd-performance@freebsd.org mailing list

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