

apache httpd performance

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2007-04/msg00046.html>

- *From:* Cheffo <cheffo@xxxxxxxxxxxxxxxx>
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Hello,

I'm running simple benchmark, ab (freebsd) -> apache 1.3.37 (freebsd)
and ab (freebsd) -> apache 1.3.34 (linux)

I do not pretend that the benchmark is accurate :) and do not really care about results in linux, but they are here just for comparison.

ab -t 30 -c 100 <http://boar.cmotd.com:81/manual/> (boar is freebsd)

Finished 26678 requests
Server Software: Apache/1.3.37
Server Hostname: boar.cmotd.com
Server Port: 81

Document Path: /manual/
Document Length: 9364 bytes

Concurrency Level: 100
Time taken for tests: 30.000 seconds
Complete requests: 26678
Failed requests: 0
Broken pipe errors: 0
Total transferred: 260937758 bytes
HTML transferred: 249863898 bytes
Requests per second: 889.27 [#/sec] (mean)
Time per request: 112.45 [ms] (mean)
Time per request: 1.12 [ms] (mean, across all concurrent requests)
Transfer rate: 8697.93 [Kbytes/sec] received

And this is what I have when the host is linux (some version of ubuntu not tunned just base install)

ab -t 30 -c 100 <http://dany.cmotd.com:80/manual/>

Server Software: Apache/1.3.34
Server Hostname: dany.cmotd.com
Server Port: 80

Document Path: /manual/

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Document Length: 9158 bytes

Concurrency Level: 100

Time taken for tests: 30.000 seconds

Complete requests: 32848

Failed requests: 0

Broken pipe errors: 0

Total transferred: 309841821 bytes

HTML transferred: 300932967 bytes

Requests per second: 1094.93 [#/sec] (mean)

Time per request: 91.33 [ms] (mean)

Time per request: 0.91 [ms] (mean, across all concurrent requests)

Transfer rate: 10328.06 [Kbytes/sec] received

changing "-c" from 100 to 500 doesn't show big difference in final results.

What can I do to improve my freebsd web server ?

```
cat /etc/sysctl.conf
```

```
kern.fallback_elf_brand=3
```

```
net.inet.ip.random_id=1 (I changed this 0, but nothing changed)
```

```
kern.maxfiles=25000
```

```
net.inet.tcp.delayed_ack=0
```

```
net.inet.tcp.inflight.enable: 0 (0/1 does not make difference)
```

CPU: AMD Athlon(tm) 64 Processor 3200+ (2002.57-MHz K8-class CPU)

FreeBSD 6.2-STABLE amd64

both httpd.conf have:

```
MinSpareServers 10
```

```
MaxSpareServers 20
```

```
MaxClients 500
```

```
MaxRequestsPerChild 0
```

```
StartServers 10
```

And yes I know "StartServers 10" is not optimal for benchmarking, but this is not the problem.

I also found that increasing kern.ipc.maxsockets to 16384+

give a boost and "completed requests" jump to: 28067

but it is still not 32K :)

Increasing kern.ipc.nmbclusters doesn't change the picture at all.

What else I can change/test to improve performance?

Best Wishes,

Stefan Lambrev

ICQ# 24134177

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freebsd-performance@xxxxxxxxxxx mailing list

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