



**MALAYSIAN PUBLIC SECTOR  
OPEN SOURCE SOFTWARE (OSS) PROGRAMME**

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**BENCHMARK / PERFORMANCE COMPARISON :  
APACHE VS NGINX WEB SERVER**

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## **SECTION 1: INTRODUCTION**

## Executive Summary

A web server is a computer program that delivers (serves) content, such as web pages, using the Hypertext Transfer Protocol (HTTP). The term web server can also refer to the computer or virtual machine running the program.

For years, Apache has been recognized as the de-facto leader in OSS web server with millions of web pages running on top of it. In the mean time, Nginx web server is gaining popularity over the time and being touted as among the faster web servers in OSS market.

This benchmarking report will do a performance comparison between 2 Open Source Web Servers which are Apache and Nginx.

## Introduction

Two web servers were selected to be the test subjects, i.e. Apache (<http://www.apache.org>) and Nginx (<http://nginx.org>). All testing activities were done on two (2) machines with the same hardware specifications, identical operating systems and similar configurations and performance tuning settings. All testing were done in OSCC's lab. All network connections were Local Area Network in nature which meant that maximum network bandwidth should be approximately 100Mbps.

## **SECTION 2 : DESCRIPTION OF EVALUATION METHODS (METHODOLOGY)**

## Benchmarking Methodology

The benchmarking activities were done using an open source web server stress test tool called ApacheBench (AB). ApacheBench is a command line computer programme for measuring the performance of HTTP web servers, in particular the Apache HTTP Server. It was designed to give an idea of the performance that a given Apache installation can provide. In particular, it shows how many requests per second the server is capable of serving.

A series of tests were done on each test subject and the results were recorded. There are 4 types of testing modes conducted which are :-

Num	Test Mode	Target file	Description
1	Static HTML page	html.htm	To test performance of serving plain HTML (non-PHP) page
2	Simple PHP page	echo.php	To test performance of serving PHP page consisting of simple "echo" code
3	Looping PHP page	loop.php	To test performance of serving PHP page consisting of looping logic. (10,000 iterations)
4	Image file	image.jpg	To test performance of serving image file

Each mode will be done in three (3) rounds.

## Hardware Specification

The evaluation of Apache 2.2.17 and Nginx 1.0.11 was conducted on 3 computers with identical hardware specifications as listed below:

- Processor : Intel(R) Core(TM) i3-2120 CPU @ 3.30GHz (Quad-Core)
- Architecture : x86\_64
- Memory : 4GB RAM

2 computers will act as a server with Apache and Nginx being installed respectively, and another computer is used as the client which do the stress test requests.

## Software Configurations

All computers were installed with Ubuntu 11.04 operating system. Apache version 2.2.17 and Nginx version 1.0.11 were installed on 2 computers. Since Nginx doesn't support PHP natively, FastCGI will be called within Nginx to serve PHP files.

	Computer A	Computer B	Computer C
Operating System	Ubuntu 11.04 64 bit	Ubuntu 11.04 64 bit	Ubuntu 11.04 64 bit
Web Server	Apache 2.2.17	Nginx 1.0.11 + FastCGI	ApacheBench
Hostname	apache	nginx	

Both Apache and Ngix are using default (out-of-box) configuration with no additional customization and performance enhancing configuration.

Benchmarking exercises were done using the Apache Bench tool (<http://httpd.apache.org/docs/2.0/programs/ab.html>).

### Command Used

Command used to launch the benchmarking process:

```
ab -n 10000 -c xxxx http://address/filename
```

Where:-

-n is the number of connections to be generated bu the stress test tool. For this benchmarking exercise, -n is fixed to **10,000**

-c is the number of concurrent connections that will take place during the series of tests.

Example :

```
ab -n 10000 -c 500 http://10.42.43.30/
```

\*Testing the Machine B with 10000 number of connection with 500 number of concurrency.



## **SECTION 3 : DISCUSSION OF RESULTS**

## Results

The outcome that will be taken from ApacheBench result is the Time per request: (mean, across all concurrent requests) in millisecond (ms). It means the time taken by the server to produce the page requested and send it to the requester. The lower the number of time needed to produce a page by a web-server indicates that the webserver is a better performer.

### Static HTML page (html.htm)

The first test is to determine which web server perform better at serving static HTML page. A simple html file was created on both computers with the content of static text without any programming logic nor variable.

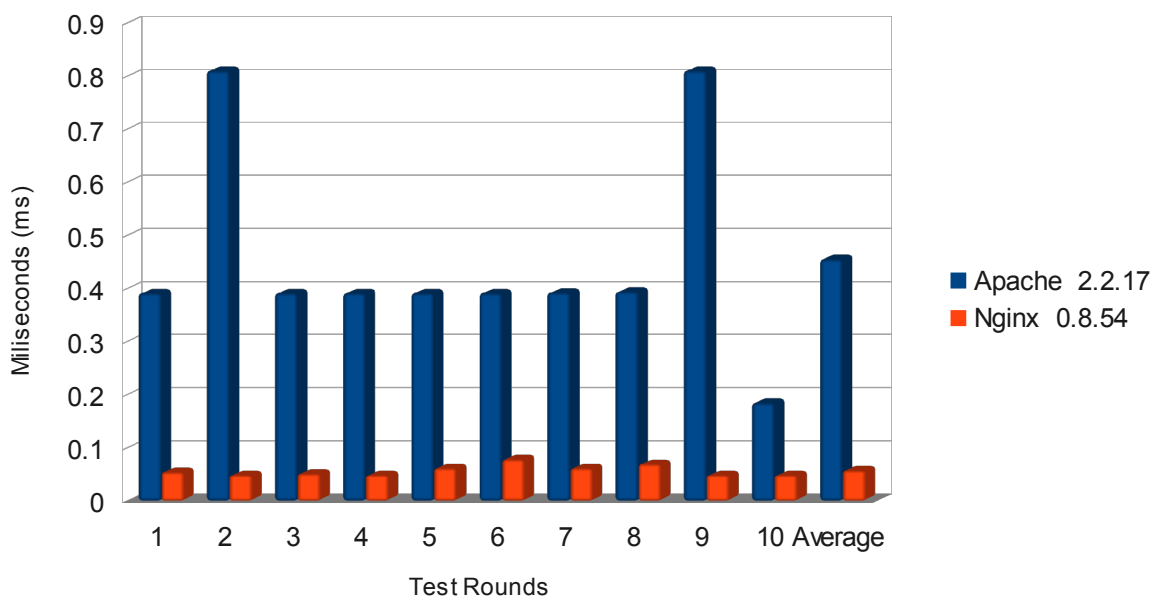
Command :

```
ab -n 10000 -c 500 http://apache/html.htm
```

```
ab -n 10000 -c 500 http://nginx/html.htm
```

Round	Apache 2.2.17	Nginx 1.0.11
1	0.391	0.054
2	0.810	0.048
3	0.391	0.051
4	0.391	0.048
5	0.391	0.061
6	0.391	0.078
7	0.392	0.061
8	0.394	0.069
9	0.810	0.048
10	0.184	0.048
<b>Average</b>	<b>0.455</b>	<b>0.057</b>

In average, Apache took 0.455 ms to server a static HTML page as compared to only 0.057 ms needed by Nginx. This shows that Nginx can perform almost 8 times faster than Apache when dealing with static HTML files.



### Simple PHP page (echo.php)

This test is to determine which web server performs better at serving simple PHP page. A simple PHP file was created on both computers with the content of simple variable and calling displaying the variable via echo command.

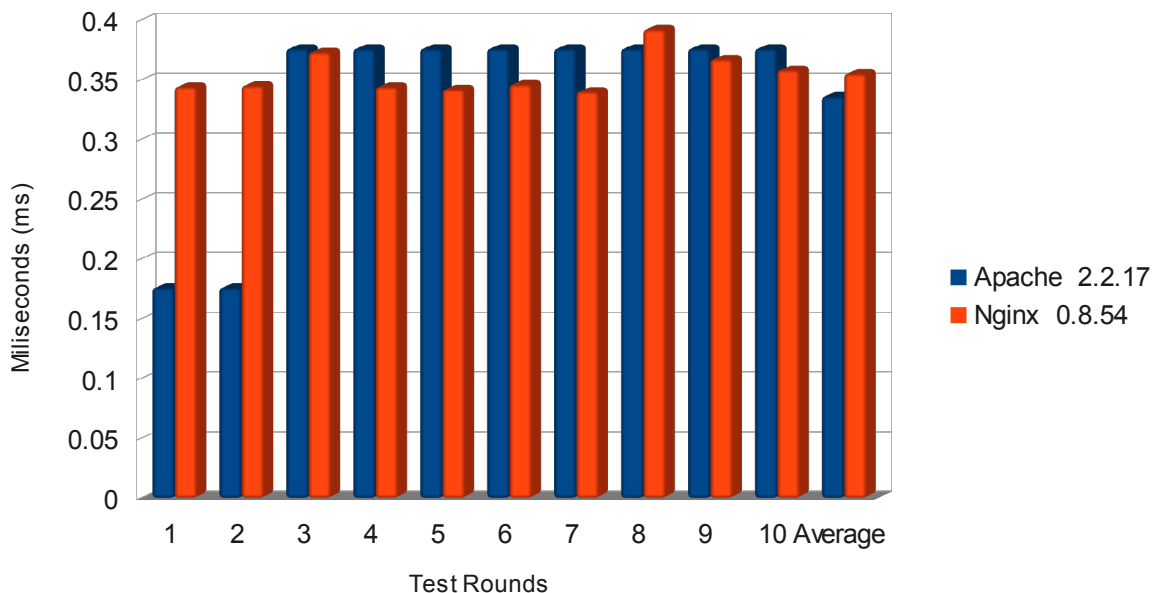
Command :

```
ab -n 10000 -c 300 http://apache/echo.php
```

```
ab -n 10000 -c 300 http://nginx/echo.php
```

Round	Apache 2.2.17	Nginx 1.0.11
1	0.176	0.344
2	0.176	0.345
3	0.376	0.373
4	0.376	0.344
5	0.376	0.342
6	0.376	0.346
7	0.376	0.340
8	0.376	0.392
9	0.376	0.367
10	0.376	0.358
<b>Average</b>	<b>0.336</b>	<b>0.355</b>

By average, the result shows that Apache performs faster in displaying simple PHP files. However the lower average result for Apache was mainly contributed by the first two rounds of testing of Apache which produce results below than 0.2 milliseconds. For round 3 and above, the results are consistent at the rate of 0.376 which is higher than the average rate for Nginx.



### PHP page with Looping (loop.php)

This test is to determine which web server performs better at serving PHP page with heavier computation. A PHP file was created on both computers with the content of looping logic with 10,000 iterations.

Command :

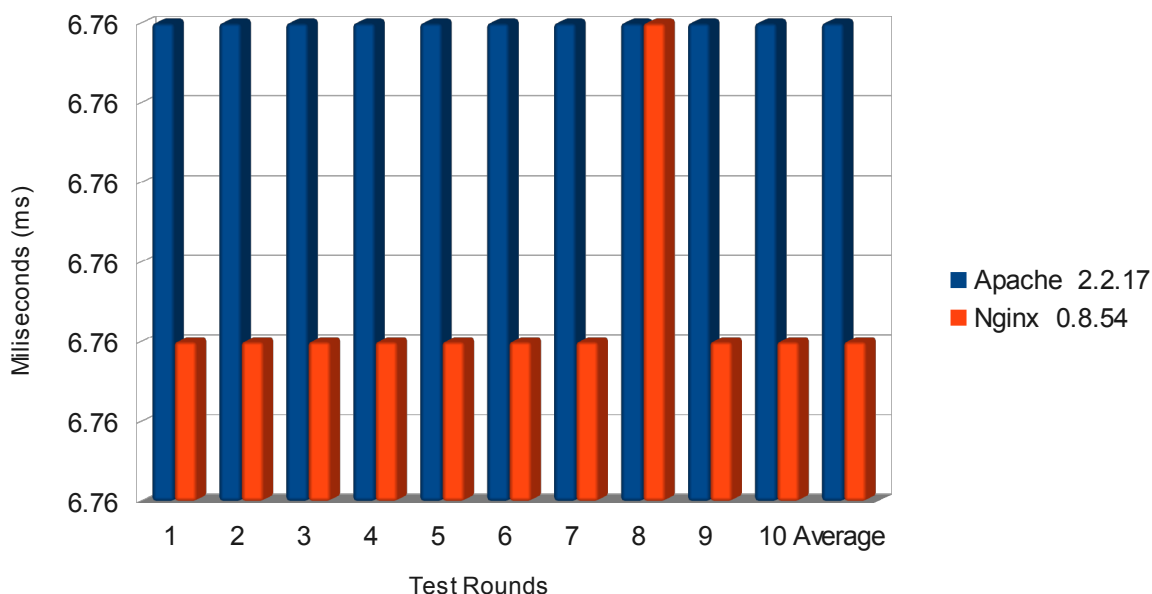
```
ab -n 10000 -c 50 http://apache/loop.php
```

```
ab -n 10000 -c 50 http://nginx/loop.php
```

Round	Apache 2.2.17	Nginx 1.0.11
1	6.761	6.759
2	6.761	6.759
3	6.761	6.759
4	6.761	6.759
5	6.761	6.759
6	6.761	6.759

7	6.761	6.759
8	6.761	6.761
9	6.761	6.759
10	6.761	6.759
<b>Average</b>	<b>6.761</b>	<b>6.759</b>

Both web server seems unable to handle concurrent connections above 60 as it will produces errors. To be on the safe side, concurrent connection was lowered to 50. Based on the results, it is clear that Nginx capable to outperform Apache in dealing with looping computation in PHP.



### Image File (image.png)

This test is to determine which web server performs better at serving image file. A simple

PNG image file (155px X 81px) was created on both computers.

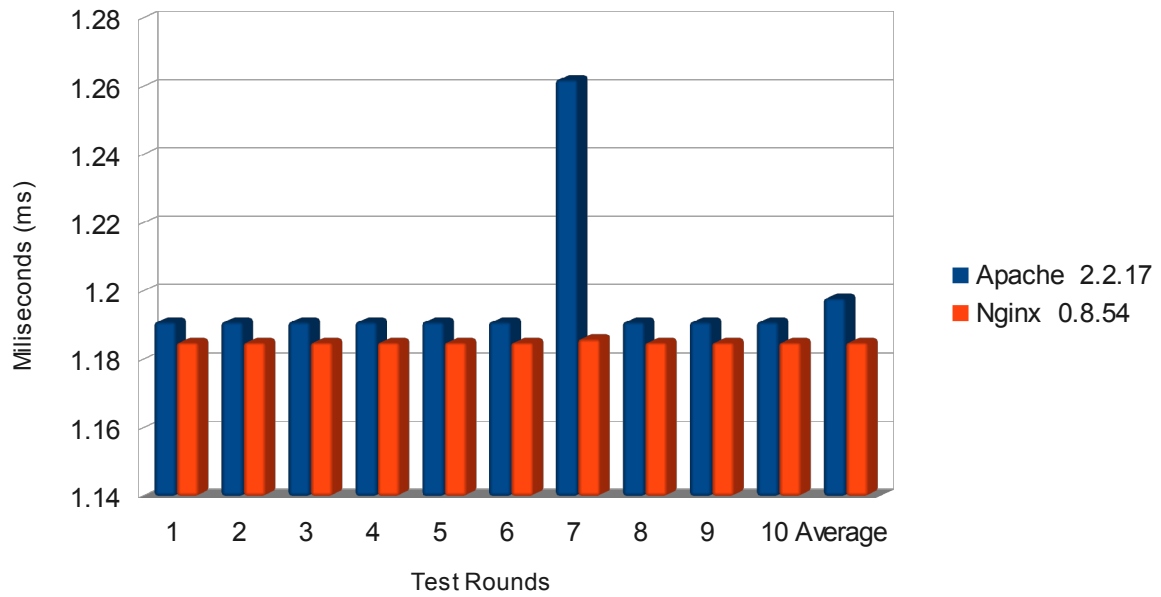
Command :

```
ab -n 10000 -c 200 http://apache/image.png
```

```
ab -n 10000 -c 200 http://nginx/image.png
```

Round	Apache 2.2.17	Nginx 1.0.11
1	1.191	1.185
2	1.191	1.185
3	1.191	1.185
4	1.191	1.185
5	1.191	1.185
6	1.191	1.185
7	1.262	1.186
8	1.191	1.185
9	1.191	1.185
10	1.191	1.185
<b>Average</b>	<b>1.198</b>	<b>1.185</b>

The result shows that Nginx manage to sever image file faster than Apache.





## Conclusions

Based on the tests done above, it can be concluded that Nginx is a better performer in almost all of the tests conducted. There are several factors contributing to the result such as the architecture of both web servers where Apache is a thread-driven application, and in contrast Nginx is *event-driven* thus needing less number of *process-worker* compared to Apache. This saves CPU and RAM usage and also reduces the need for synchronization among *process-workers*.

In addition, Nginx also been recognized as an efficient reverse-proxy server. This is confirmed by Wordpress.com which claimed that Nginx to be the only load balancer able to handle 8000 live traffic requests per-second.

## **SECTION 4 : REFERENCES**

## References

Lists of references reviewed or consulted during the analysis.

- i. <http://apache.org/>
- ii. <http://nginx.org/>
- iii. [http://en.wikipedia.org/wiki/Apache\\_HTTP\\_Server](http://en.wikipedia.org/wiki/Apache_HTTP_Server)
- iv. <http://en.wikipedia.org/wiki/Nginx>

## **SECTION 5 : APPENDIX**

## Test scripts

### Static Page (html.htm)

```
<html>
<head>
<title>Test Page</title>
</head>

<h1>Test Page</h1>

<p>
This is a test page
</p>
</html>
```

### Simple PHP Page (echo.php)

```
<? php

echo "Hello World";
echo "<br>This is a test page";
$num = 1 + 2 + 3;
echo "<br>$num";

?>
```

### PHP Page with Looping (loop.php)

```
<?php

// Initial Configuration
global $aHash;
$i = 0;
$tmp = '';
while($i < 10000) {
    $tmp .= 'a';
    echo $i."<br>";
    ++$i;
}
$aHash = array_fill(10000000000000000000000000000000, 100, $tmp);
unset($i, $tmp);

// Test Source
function Test2_1() {
    global $aHash;
```

```
/* The Test */
$t = microtime(true);
reset($aHash);
foreach($aHash as $key=>$val) $aHash[$key] .= "a";

return (microtime(true) - $t);
}

// Variable Clean-up
function Test2_End() {
    global $aHash;
    unset($aHash);
}

?>
```

## Image File (image.png)

Image used :



Image properties :

Image Type : png (The PNG image format)  
Dimension : 155x81 pixels  
File Size : 13.1 KB (13,390 Bytes)

## Test for Apache 2.2.17

### Static Page (html.htm)

#### Round 1

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     apache
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 3.911 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2790000 bytes
HTML transferred:    60000 bytes
Requests per second: 2557.04 [#/sec] (mean)
Time per request:    195.539 [ms] (mean)
Time per request:    0.391 [ms] (mean, across all concurrent requests)
Transfer rate:       696.69 [Kbytes/sec] received
```

Connection Times (ms)

```
min mean[+/-sd] median max
```

```
Connect:      0    1    1.7    0    10
Processing:   5   61  336.1    8   3896
Waiting:      5   61  336.1    8   3896
Total:        7   62  337.1    8   3902
```

Percentage of the requests served within a certain time (ms)

```
50%      8
66%      8
75%      8
80%      8
90%      9
95%     16
98%     796
99%    1829
100%   3902 (longest request)
```

Round 2

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      apache
Server Port:          80
```

```
Document Path:        /html.htm
Document Length:      6 bytes
```



```
Concurrency Level:      500
Time taken for tests:   8.095 seconds
Complete requests:     10000
Failed requests:       0
Write errors:          0
Total transferred:     2790000 bytes
HTML transferred:     60000 bytes
Requests per second:   1235.28 [#/sec] (mean)
Time per request:      404.766 [ms] (mean)
Time per request:      0.810 [ms] (mean, across all concurrent requests)
Transfer rate:         336.57 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 1.6	0	10
Processing:	4	169 894.8	19	8082
Waiting:	4	169 894.8	19	8082
Total:	15	169 895.7	19	8089

Percentage of the requests served within a certain time (ms)

50%	19
66%	24
75%	24
80%	24
90%	24
95%	28
98%	3910
99%	3924
100%	8089 (longest request)

Round 3

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80

Document Path: /html.htm  
Document Length: 6 bytes

Concurrency Level: 500  
Time taken for tests: 3.909 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2790000 bytes  
HTML transferred: 60000 bytes  
Requests per second: 2557.99 [#/sec] (mean)  
Time per request: 195.466 [ms] (mean)  
Time per request: 0.391 [ms] (mean, across all concurrent requests)  
Transfer rate: 696.95 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	2 1.5	1	10
Processing:	5	50 262.4	8	3894
Waiting:	5	50 262.4	8	3894
Total:	7	52 263.2	9	3900

Percentage of the requests served within a certain time (ms)

50%	9
66%	9

75%	9
80%	9
90%	10
95%	20
98%	794
99%	1826
100%	3900 (longest request)

Round 4

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      apache
Server Port:          80

Document Path:        /html.htm
Document Length:      6 bytes

Concurrency Level:    500
Time taken for tests:  3.911 seconds
Complete requests:    10000
Failed requests:      0
Write errors:         0
Total transferred:    2790000 bytes
HTML transferred:     60000 bytes
Requests per second:  2556.64 [#/sec] (mean)
Time per request:     195.569 [ms] (mean)
Time per request:     0.391 [ms] (mean, across all concurrent requests)
```

Transfer rate: 696.58 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	2 1.6	1	10
Processing:	6	55 297.7	7	3896
Waiting:	5	55 297.7	7	3896
Total:	7	56 298.5	9	3902

Percentage of the requests served within a certain time (ms)

50%	9
66%	9
75%	9
80%	9
90%	9
95%	21
98%	796
99%	1828
100%	3902 (longest request)

Round 5

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80

Document Path: /html.htm

Document Length: 6 bytes

Concurrency Level: 500

Time taken for tests: 3.911 seconds

Complete requests: 10000

Failed requests: 0

Write errors: 0

Total transferred: 2790000 bytes

HTML transferred: 60000 bytes

Requests per second: 2557.14 [#/sec] (mean)

Time per request: 195.531 [ms] (mean)

Time per request: 0.391 [ms] (mean, across all concurrent requests)

Transfer rate: 696.72 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 1.6	1	10
Processing:	6	57 315.3	7	3895
Waiting:	5	57 315.3	7	3895
Total:	7	58 316.2	8	3901

Percentage of the requests served within a certain time (ms)

50%	8
66%	8
75%	8
80%	9
90%	9
95%	16
98%	795
99%	1828
100%	3901 (longest request)

Round 6

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17

Server Hostname: apache

Server Port: 80

Document Path: /html.htm

Document Length: 6 bytes

Concurrency Level: 500

Time taken for tests: 3.907 seconds

Complete requests: 10000

Failed requests: 0

Write errors: 0

Total transferred: 2790000 bytes

HTML transferred: 60000 bytes

Requests per second: 2559.70 [#/sec] (mean)

Time per request: 195.336 [ms] (mean)

Time per request: 0.391 [ms] (mean, across all concurrent requests)

Transfer rate: 697.42 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 1.7	1	10
Processing:	5	50 250.0	8	3892
Waiting:	5	50 250.0	7	3892
Total:	6	51 251.1	8	3898

Percentage of the requests served within a certain time (ms)

50% 8

```
66%      8
75%      8
80%      8
90%      9
95%     20
98%     793
99%    1825
100%   3898 (longest request)
```

Round 7

```
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```

Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     apache
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 3.917 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2790000 bytes
HTML transferred:    60000 bytes
Requests per second: 2552.71 [#/sec] (mean)
Time per request:    195.871 [ms] (mean)
```

Time per request: 0.392 [ms] (mean, across all concurrent requests)  
Transfer rate: 695.51 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 1.8	0	10
Processing:	6	74 403.3	8	3901
Waiting:	6	74 403.3	8	3901
Total:	8	74 404.4	9	3907

Percentage of the requests served within a certain time (ms)

50%	9
66%	9
75%	9
80%	9
90%	10
95%	18
98%	1827
99%	1836
100%	3907 (longest request)

Round 8

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80



Document Path: /html.htm  
Document Length: 6 bytes

Concurrency Level: 500  
Time taken for tests: 3.936 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2790000 bytes  
HTML transferred: 60000 bytes  
Requests per second: 2540.72 [#/sec] (mean)  
Time per request: 196.795 [ms] (mean)  
Time per request: 0.394 [ms] (mean, across all concurrent requests)  
Transfer rate: 692.25 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 1.6	0	10
Processing:	4	106 502.3	18	3922
Waiting:	4	106 502.3	18	3922
Total:	13	106 503.3	19	3926

Percentage of the requests served within a certain time (ms)

50%	19
66%	19
75%	19
80%	19
90%	19
95%	23
98%	1838
99%	3911
100%	3926 (longest request)

Round 9

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     apache
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 8.095 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2790000 bytes
HTML transferred:    60000 bytes
Requests per second: 1235.27 [#/sec] (mean)
Time per request:    404.769 [ms] (mean)
Time per request:    0.810 [ms] (mean, across all concurrent requests)
Transfer rate:       336.56 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 1.2	0	9
Processing:	3	169 890.3	23	8084
Waiting:	3	169 890.3	23	8084
Total:	12	169 890.8	24	8087

Percentage of the requests served within a certain time (ms)

50%	24
66%	24
75%	24
80%	24
90%	25
95%	29
98%	3906
99%	3924
100%	8087 (longest request)

### Round 10

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     apache
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 1.839 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2790000 bytes
HTML transferred:    60000 bytes
Requests per second: 5438.85 [#/sec] (mean)
```

Time per request: 91.931 [ms] (mean)  
Time per request: 0.184 [ms] (mean, across all concurrent requests)  
Transfer rate: 1481.87 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 1.6	1	10
Processing:	5	39 183.2	7	1824
Waiting:	5	39 183.2	7	1824
Total:	7	40 184.2	8	1829

Percentage of the requests served within a certain time (ms)

50%	8
66%	8
75%	8
80%	8
90%	9
95%	18
98%	789
99%	794
100%	1829 (longest request)

## Simple PHP Page (echo.php)

### Round 1

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80  
  
Document Path: /echo.php  
Document Length: 11 bytes  
  
Concurrency Level: 300  
Time taken for tests: 1.762 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2220000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 5675.34 [#/sec] (mean)  
Time per request: 52.860 [ms] (mean)  
Time per request: 0.176 [ms] (mean, across all concurrent requests)  
Transfer rate: 1230.40 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	3	22 113.2	8	1752
Waiting:	3	22 113.2	8	1752
Total:	7	23 113.6	8	1756

Percentage of the requests served within a certain time (ms)

50%	8
66%	9
75%	10
80%	11
90%	12
95%	14
98%	22
99%	766

100% 1756 (longest request)

**Round 2**

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80

Document Path: /echo.php  
Document Length: 11 bytes

Concurrency Level: 300  
Time taken for tests: 1.761 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2220000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 5679.80 [#/sec] (mean)  
Time per request: 52.819 [ms] (mean)  
Time per request: 0.176 [ms] (mean, across all concurrent requests)  
Transfer rate: 1231.36 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	3	22 109.5	8	1751

```
Waiting:      3  22 109.5      8  1751
Total:       7  22 109.9      9  1755
```

Percentage of the requests served within a certain time (ms)

```
50%      9
66%      9
75%      9
80%      9
90%     11
95%     12
98%     22
99%     764
100%    1755 (longest request)
```

### **Round 3**

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      apache
Server Port:          80
```

```
Document Path:        /echo.php
Document Length:      11 bytes
```

```
Concurrency Level:    300
Time taken for tests:  3.760 seconds
Complete requests:    10000
Failed requests:      0
```

Write errors: 0  
Total transferred: 2220000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2659.39 [#/sec] (mean)  
Time per request: 112.808 [ms] (mean)  
Time per request: 0.376 [ms] (mean, across all concurrent requests)  
Transfer rate: 576.55 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	3	39 238.4	10	3751
Waiting:	3	39 238.4	10	3751
Total:	9	39 238.9	11	3754

Percentage of the requests served within a certain time (ms)

50%	11
66%	11
75%	11
80%	11
90%	12
95%	12
98%	22
99%	1763
100%	3754 (longest request)

**Round 4**

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Benchmarking apache (be patient)



Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80  
  
Document Path: /echo.php  
Document Length: 11 bytes  
  
Concurrency Level: 300  
Time taken for tests: 3.761 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2220000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2658.94 [#/sec] (mean)  
Time per request: 112.827 [ms] (mean)  
Time per request: 0.376 [ms] (mean, across all concurrent requests)  
Transfer rate: 576.45 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	3	44 249.5	14	3752
Waiting:	3	44 249.5	14	3752
Total:	9	44 249.9	14	3755

Percentage of the requests served within a certain time (ms)

50%	14
66%	14
75%	14
80%	15
90%	15
95%	16
98%	28

99% 1764  
100% 3755 (longest request)

### **Round 5**

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80

Document Path: /echo.php  
Document Length: 11 bytes

Concurrency Level: 300  
Time taken for tests: 3.761 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2220000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2659.01 [#/sec] (mean)  
Time per request: 112.824 [ms] (mean)  
Time per request: 0.376 [ms] (mean, across all concurrent requests)  
Transfer rate: 576.46 [Kbytes/sec] received

#### Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6

```
Processing:      3   48 254.1    18   3751
Waiting:        3   48 254.1    18   3751
Total:          10  48 254.5    18   3755
```

Percentage of the requests served within a certain time (ms)

```
50%    18
66%    18
75%    19
80%    19
90%    20
95%    26
98%    35
99%   1764
100%   3755 (longest request)
```

### Round 6

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      apache
Server Port:          80
```

```
Document Path:        /echo.php
Document Length:      11 bytes
```

```
Concurrency Level:    300
Time taken for tests:  3.762 seconds
Complete requests:    10000
```

```
Failed requests:      0
Write errors:        0
Total transferred:   2220000 bytes
HTML transferred:    110000 bytes
Requests per second: 2658.02 [#/sec] (mean)
Time per request:    112.866 [ms] (mean)
Time per request:    0.376 [ms] (mean, across all concurrent requests)
Transfer rate:       576.25 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	3	52 267.5	18	3753
Waiting:	3	52 267.5	18	3753
Total:	10	52 268.0	18	3756

Percentage of the requests served within a certain time (ms)

50%	18
66%	19
75%	19
80%	19
90%	27
95%	33
98%	36
99%	1765
100%	3756 (longest request)

**Round 7**

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80  
  
Document Path: /echo.php  
Document Length: 11 bytes  
  
Concurrency Level: 300  
Time taken for tests: 3.758 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2220000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2660.77 [#/sec] (mean)  
Time per request: 112.749 [ms] (mean)  
Time per request: 0.376 [ms] (mean, across all concurrent requests)  
Transfer rate: 576.85 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	7
Processing:	2	50 264.3	18	3749
Waiting:	2	50 264.3	18	3749
Total:	6	50 264.8	18	3753

Percentage of the requests served within a certain time (ms)

50%	18
66%	18
75%	19
80%	19
90%	21
95%	34

```
98%      38
99%     1761
100%    3753 (longest request)
```

### **Round 8**

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     apache
Server Port:         80
```

```
Document Path:       /echo.php
Document Length:     11 bytes
```

```
Concurrency Level:   300
Time taken for tests: 3.761 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2220000 bytes
HTML transferred:    110000 bytes
Requests per second: 2658.89 [#/sec] (mean)
Time per request:    112.829 [ms] (mean)
Time per request:    0.376 [ms] (mean, across all concurrent requests)
Transfer rate:       576.44 [Kbytes/sec] received
```

Connection Times (ms)

```
min mean[+/-sd] median max
```

```
Connect:      0    0  0.8    0    6
Processing:   2   51 264.7   18  3752
Waiting:      2   51 264.7   18  3752
Total:        6   52 265.2   18  3756
```

Percentage of the requests served within a certain time (ms)

```
50%    18
66%    19
75%    19
80%    23
90%    28
95%    30
98%    37
99%   1764
100%  3756 (longest request)
```

### Round 9

```
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```

Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      apache
Server Port:          80
```

```
Document Path:        /echo.php
Document Length:      11 bytes
```

```
Concurrency Level:    300
Time taken for tests:  3.760 seconds
```

```
Complete requests:      10000
Failed requests:        0
Write errors:           0
Total transferred:      2220000 bytes
HTML transferred:       110000 bytes
Requests per second:    2659.74 [#/sec] (mean)
Time per request:       112.793 [ms] (mean)
Time per request:       0.376 [ms] (mean, across all concurrent requests)
Transfer rate:          576.62 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	3	54 267.0	18	3750
Waiting:	3	54 267.0	18	3750
Total:	10	54 267.5	18	3754

Percentage of the requests served within a certain time (ms)

50%	18
66%	19
75%	28
80%	33
90%	34
95%	34
98%	35
99%	1764
100%	3754 (longest request)

**Round 10**

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     apache
Server Port:         80

Document Path:       /echo.php
Document Length:     11 bytes

Concurrency Level:   300
Time taken for tests: 3.764 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2220000 bytes
HTML transferred:    110000 bytes
Requests per second: 2657.10 [#/sec] (mean)
Time per request:    112.905 [ms] (mean)
Time per request:    0.376 [ms] (mean, across all concurrent requests)
Transfer rate:       576.05 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	7
Processing:	3	55 272.0	18	3754
Waiting:	3	55 272.0	18	3754
Total:	10	55 272.4	19	3757

Percentage of the requests served within a certain time (ms)

50%	19
66%	27
75%	27
80%	28
90%	29

```
95%      33
98%      36
99%     1765
100%    3757 (longest request)
```

## PHP Page with Looping (loop.php)

### Round 1

```
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```

```
Benchmarking nginx (be patient)
```

```
Server Software:      Apache/2.2.17
Server Hostname:     nginx
Server Port:         80

Document Path:       /loop.php
Document Length:     78901 bytes

Concurrency Level:   50
Time taken for tests: 67.612 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790920000 bytes
HTML transferred:    789010000 bytes
Requests per second: 147.90 [#/sec] (mean)
Time per request:    338.062 [ms] (mean)
Time per request:    6.761 [ms] (mean, across all concurrent requests)
Transfer rate:       11423.68 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 2.4	28	32
Processing:	16	310 11.0	311	526
Waiting:	2	30 8.6	29	276
Total:	17	338 11.1	338	527

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	340
90%	341
95%	342
98%	348
99%	358
100%	527 (longest request)

**Round 2**

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Benchmarking nginx (be patient)

Server Software: Apache/2.2.17  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php  
Document Length: 78901 bytes

Concurrency Level: 50  
Time taken for tests: 67.612 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 790920000 bytes  
HTML transferred: 789010000 bytes  
Requests per second: 147.90 [#/sec] (mean)  
Time per request: 338.060 [ms] (mean)  
Time per request: 6.761 [ms] (mean, across all concurrent requests)  
Transfer rate: 11423.74 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 2.7	28	34
Processing:	101	311 8.2	311	480
Waiting:	2	30 5.8	29	209
Total:	102	338 8.2	338	481

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	340
80%	340
90%	341
95%	343
98%	350
99%	361
100%	481 (longest request)

**Round 3**

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Benchmarking nginx (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     nginx
Server Port:         80

Document Path:       /loop.php
Document Length:     78901 bytes

Concurrency Level:   50
Time taken for tests: 67.613 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790920000 bytes
HTML transferred:   789010000 bytes
Requests per second: 147.90 [#/sec] (mean)
Time per request:    338.063 [ms] (mean)
Time per request:    6.761 [ms] (mean, across all concurrent requests)
Transfer rate:       11423.66 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 3.2	27	35
Processing:	24	311 9.5	311	420
Waiting:	2	29 6.4	29	161
Total:	26	338 9.4	338	432

Percentage of the requests served within a certain time (ms)

```
50%    338
66%    339
```

75%	340
80%	340
90%	341
95%	345
98%	356
99%	363
100%	432 (longest request)

#### Round 4

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Benchmarking nginx (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      nginx
Server Port:          80

Document Path:        /loop.php
Document Length:      78901 bytes

Concurrency Level:    50
Time taken for tests: 67.613 seconds
Complete requests:    10000
Failed requests:      0
Write errors:         0
Total transferred:    790920000 bytes
HTML transferred:     789010000 bytes
Requests per second: 147.90 [#/sec] (mean)
Time per request:     338.063 [ms] (mean)
Time per request:     6.761 [ms] (mean, across all concurrent requests)
```

Transfer rate: 11423.64 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 2.9	28	34
Processing:	17	311 9.7	311	507
Waiting:	2	30 6.9	29	228
Total:	18	338 9.7	338	508

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	340
80%	340
90%	341
95%	344
98%	353
99%	362
100%	508 (longest request)

**Round 5**

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Benchmarking nginx (be patient)

Server Software: Apache/2.2.17  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php

Document Length: 78901 bytes

Concurrency Level: 50

Time taken for tests: 67.613 seconds

Complete requests: 10000

Failed requests: 0

Write errors: 0

Total transferred: 790920000 bytes

HTML transferred: 789010000 bytes

Requests per second: 147.90 [#/sec] (mean)

Time per request: 338.063 [ms] (mean)

Time per request: 6.761 [ms] (mean, across all concurrent requests)

Transfer rate: 11423.64 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 3.0	28	34
Processing:	24	311 11.1	311	504
Waiting:	3	30 9.2	29	244
Total:	25	338 11.1	338	504

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	340
80%	340
90%	341
95%	344
98%	356
99%	365
100%	504 (longest request)

**Round 6**



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Benchmarking nginx (be patient)

Server Software: Apache/2.2.17  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php  
Document Length: 78901 bytes

Concurrency Level: 50  
Time taken for tests: 67.612 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 790920000 bytes  
HTML transferred: 789010000 bytes  
Requests per second: 147.90 [#/sec] (mean)  
Time per request: 338.062 [ms] (mean)  
Time per request: 6.761 [ms] (mean, across all concurrent requests)  
Transfer rate: 11423.68 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 3.2	28	35
Processing:	16	311 10.7	311	577
Waiting:	2	29 5.9	29	163
Total:	17	338 10.5	338	604

Percentage of the requests served within a certain time (ms)

50% 338

66%	339
75%	340
80%	340
90%	341
95%	344
98%	355
99%	361
100%	604 (longest request)

### Round 7

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Benchmarking nginx (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     nginx
Server Port:         80

Document Path:       /loop.php
Document Length:     78901 bytes

Concurrency Level:   50
Time taken for tests: 67.613 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790920000 bytes
HTML transferred:    789010000 bytes
Requests per second: 147.90 [#/sec] (mean)
Time per request:    338.063 [ms] (mean)
```

Time per request: 6.761 [ms] (mean, across all concurrent requests)  
Transfer rate: 11423.65 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 3.4	27	36
Processing:	15	311 11.1	311	383
Waiting:	2	29 4.9	29	110
Total:	16	338 10.8	338	408

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	340
80%	340
90%	342
95%	350
98%	362
99%	365
100%	408 (longest request)

**Round 8**

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Benchmarking nginx (be patient)

Server Software: Apache/2.2.17  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php  
Document Length: 78901 bytes

Concurrency Level: 50  
Time taken for tests: 67.613 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 790920000 bytes  
HTML transferred: 789010000 bytes  
Requests per second: 147.90 [#/sec] (mean)  
Time per request: 338.064 [ms] (mean)  
Time per request: 6.761 [ms] (mean, across all concurrent requests)  
Transfer rate: 11423.63 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 2.8	28	34
Processing:	86	311 9.3	311	461
Waiting:	2	29 5.5	29	199
Total:	87	338 9.4	338	462

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	340
90%	341
95%	344
98%	359
99%	364
100%	462 (longest request)

**Round 9**

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Benchmarking nginx (be patient)

Server Software: Apache/2.2.17  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php  
Document Length: 78901 bytes

Concurrency Level: 50  
Time taken for tests: 67.613 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 790920000 bytes  
HTML transferred: 789010000 bytes  
Requests per second: 147.90 [#/sec] (mean)  
Time per request: 338.065 [ms] (mean)  
Time per request: 6.761 [ms] (mean, across all concurrent requests)  
Transfer rate: 11423.58 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	27 2.9	28	33
Processing:	80	311 11.0	311	579
Waiting:	3	30 7.9	29	231
Total:	81	338 11.0	338	607

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	340
80%	340
90%	341
95%	344
98%	360
99%	366
100%	607 (longest request)

### **Round 10**

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Benchmarking nginx (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     nginx
Server Port:        80

Document Path:      /loop.php
Document Length:    78901 bytes

Concurrency Level:   50
Time taken for tests: 67.612 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790920000 bytes
HTML transferred:   789010000 bytes
Requests per second: 147.90 [#/sec] (mean)
```

Time per request: 338.061 [ms] (mean)  
Time per request: 6.761 [ms] (mean, across all concurrent requests)  
Transfer rate: 11423.72 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	27 3.5	27	34
Processing:	82	311 11.3	311	517
Waiting:	2	29 7.2	28	255
Total:	82	338 11.0	338	517

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	340
80%	340
90%	342
95%	347
98%	362
99%	366
100%	517 (longest request)

## Image File (image.php)

### Round 1

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80

Document Path: /image.png  
Document Length: 13390 bytes

Concurrency Level: 200  
Time taken for tests: 11.913 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136730000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 839.43 [#/sec] (mean)  
Time per request: 238.256 [ms] (mean)  
Time per request: 1.191 [ms] (mean, across all concurrent requests)  
Transfer rate: 11208.59 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	61
Processing:	23	179 23.4	179	447
Waiting:	3	62 23.5	59	339
Total:	27	237 23.1	238	449

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	239
95%	247
98%	251
99%	279



100% 449 (longest request)

**Round 2**

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80

Document Path: /image.png  
Document Length: 13390 bytes

Concurrency Level: 200  
Time taken for tests: 11.913 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136730000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 839.44 [#/sec] (mean)  
Time per request: 238.255 [ms] (mean)  
Time per request: 1.191 [ms] (mean, across all concurrent requests)  
Transfer rate: 11208.62 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	60
Processing:	20	179 23.5	179	447

```
Waiting:      3   62  23.3    59   339
Total:       24  237  23.2   238   450
```

Percentage of the requests served within a certain time (ms)

```
50%    238
66%    238
75%    239
80%    239
90%    240
95%    247
98%    251
99%    278
100%   450 (longest request)
```

### **Round 3**

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      apache
Server Port:          80
```

```
Document Path:        /image.png
Document Length:      13390 bytes
```

```
Concurrency Level:    200
Time taken for tests:  11.913 seconds
Complete requests:    10000
Failed requests:      0
```

```
Write errors:          0
Total transferred:    136730000 bytes
HTML transferred:    133900000 bytes
Requests per second:  839.43 [#/sec] (mean)
Time per request:    238.257 [ms] (mean)
Time per request:    1.191 [ms] (mean, across all concurrent requests)
Transfer rate:       11208.52 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	60
Processing:	19	179 23.7	179	492
Waiting:	3	62 23.3	59	340
Total:	23	237 23.4	238	551

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	240
95%	247
98%	251
99%	277
100%	551 (longest request)

**Round 4**

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80  
  
Document Path: /image.png  
Document Length: 13390 bytes  
  
Concurrency Level: 200  
Time taken for tests: 11.913 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136730000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 839.43 [#/sec] (mean)  
Time per request: 238.257 [ms] (mean)  
Time per request: 1.191 [ms] (mean, across all concurrent requests)  
Transfer rate: 11208.51 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	60
Processing:	18	180 23.9	179	449
Waiting:	3	62 23.8	59	340
Total:	22	237 23.6	238	451

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	240
95%	248
98%	256

99% 281  
100% 451 (longest request)

### **Round 5**

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80

Document Path: /image.png  
Document Length: 13390 bytes

Concurrency Level: 200  
Time taken for tests: 11.913 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136730000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 839.43 [#/sec] (mean)  
Time per request: 238.256 [ms] (mean)  
Time per request: 1.191 [ms] (mean, across all concurrent requests)  
Transfer rate: 11208.57 [Kbytes/sec] received

#### Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	60

Processing:	20	180	23.8	179	449
Waiting:	3	62	23.8	59	340
Total:	24	237	23.5	238	451

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	241
95%	248
98%	255
99%	281
100%	451 (longest request)

### **Round 6**

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Benchmarking apache (be patient)

Server Software: Apache/2.2.17

Server Hostname: apache

Server Port: 80

Document Path: /image.png

Document Length: 13390 bytes

Concurrency Level: 200

Time taken for tests: 11.913 seconds

Complete requests: 10000

```
Failed requests:      0
Write errors:        0
Total transferred:   136730000 bytes
HTML transferred:    133900000 bytes
Requests per second: 839.43 [#/sec] (mean)
Time per request:    238.257 [ms] (mean)
Time per request:    1.191 [ms] (mean, across all concurrent requests)
Transfer rate:       11208.53 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	61
Processing:	19	179 23.3	179	446
Waiting:	3	61 23.1	59	338
Total:	23	237 23.1	238	448

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	239
95%	240
98%	248
99%	278
100%	448 (longest request)

**Round 7**

```
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```

Benchmarking apache (be patient)

Server Software: Apache/2.2.17  
Server Hostname: apache  
Server Port: 80  
  
Document Path: /image.png  
Document Length: 13390 bytes  
  
Concurrency Level: 200  
Time taken for tests: 12.624 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136730000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 792.13 [#/sec] (mean)  
Time per request: 252.483 [ms] (mean)  
Time per request: 1.262 [ms] (mean, across all concurrent requests)  
Transfer rate: 10576.98 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	36 193.9	18	9079
Processing:	4	215 560.4	156	8007
Waiting:	2	158 560.6	105	7905
Total:	8	251 590.8	174	9257

Percentage of the requests served within a certain time (ms)

50%	174
66%	236
75%	236
80%	238
90%	240
95%	257



```
98%    642
99%    649
100%   9257 (longest request)
```

### **Round 8**

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:      apache
Server Port:          80

Document Path:        /image.png
Document Length:      13390 bytes

Concurrency Level:    200
Time taken for tests:  11.911 seconds
Complete requests:    10000
Failed requests:      0
Write errors:         0
Total transferred:    136730000 bytes
HTML transferred:     133900000 bytes
Requests per second:  839.54 [#/sec] (mean)
Time per request:     238.224 [ms] (mean)
Time per request:     1.191 [ms] (mean, across all concurrent requests)
Transfer rate:        11210.05 [Kbytes/sec] received
```

Connection Times (ms)

```
min mean[+/-sd] median max
```

Connect:	2	57	8.4	59	62
Processing:	35	179	19.7	179	496
Waiting:	2	61	20.0	59	379
Total:	39	237	19.8	238	556

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	239
95%	239
98%	245
99%	262
100%	556 (longest request)

### Round 9

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Benchmarking apache (be patient)

Server Software:	Apache/2.2.17
Server Hostname:	apache
Server Port:	80
Document Path:	/image.png
Document Length:	13390 bytes
Concurrency Level:	200
Time taken for tests:	11.913 seconds

```
Complete requests:      10000
Failed requests:        0
Write errors:           0
Total transferred:     136730000 bytes
HTML transferred:      133900000 bytes
Requests per second:   839.43 [#/sec] (mean)
Time per request:      238.256 [ms] (mean)
Time per request:      1.191 [ms] (mean, across all concurrent requests)
Transfer rate:         11208.56 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	60
Processing:	14	179 23.9	179	448
Waiting:	3	62 23.5	59	337
Total:	18	237 23.6	238	450

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	239
95%	240
98%	251
99%	281
100%	450 (longest request)

**Round 10**

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Benchmarking apache (be patient)

```
Server Software:      Apache/2.2.17
Server Hostname:     apache
Server Port:         80

Document Path:       /image.png
Document Length:     13390 bytes

Concurrency Level:   200
Time taken for tests: 11.913 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   136730000 bytes
HTML transferred:    133900000 bytes
Requests per second: 839.44 [#/sec] (mean)
Time per request:    238.255 [ms] (mean)
Time per request:    1.191 [ms] (mean, across all concurrent requests)
Transfer rate:       11208.62 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	57 8.5	59	61
Processing:	18	180 23.6	179	448
Waiting:	3	62 23.6	59	340
Total:	23	237 23.3	238	450

Percentage of the requests served within a certain time (ms)

50%	238
66%	238
75%	239
80%	239
90%	241

95%	247
98%	250
99%	280
100%	450 (longest request)

# Test for Nginx 1.0.11

## Static Page (html.htm)

### Round 1

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 0.535 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2150000 bytes
HTML transferred:    60000 bytes
Requests per second: 18677.83 [#/sec] (mean)
Time per request:    26.770 [ms] (mean)
Time per request:    0.054 [ms] (mean, across all concurrent requests)
Transfer rate:       3921.62 [Kbytes/sec] received
```

Connection Times (ms)

```
min mean[+/-sd] median max
```

Connect:	0	4	1.5	3	10
Processing:	1	7	21.7	5	254
Waiting:	1	7	21.7	5	254
Total:	3	11	21.7	8	256

Percentage of the requests served within a certain time (ms)

50%	8
66%	9
75%	10
80%	10
90%	11
95%	20
98%	26
99%	30
100%	256 (longest request)

## Round 2

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Benchmarking nginx (be patient)

Server Software:	nginx/1.0.11
Server Hostname:	nginx
Server Port:	80
Document Path:	/html.htm
Document Length:	6 bytes
Concurrency Level:	500
Time taken for tests:	0.475 seconds

```
Complete requests:      10000
Failed requests:        0
Write errors:           0
Total transferred:      2150000 bytes
HTML transferred:       60000 bytes
Requests per second:    21035.85 [#/sec] (mean)
Time per request:       23.769 [ms] (mean)
Time per request:       0.048 [ms] (mean, across all concurrent requests)
Transfer rate:          4416.71 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	4 1.4	3	9
Processing:	3	8 25.4	4	256
Waiting:	2	7 25.4	4	256
Total:	5	12 25.4	7	258

Percentage of the requests served within a certain time (ms)

50%	7
66%	11
75%	11
80%	11
90%	11
95%	16
98%	23
99%	254
100%	258 (longest request)

**Round 3**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /html.htm  
Document Length: 6 bytes  
  
Concurrency Level: 500  
Time taken for tests: 0.508 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2150000 bytes  
HTML transferred: 60000 bytes  
Requests per second: 19675.47 [#/sec] (mean)  
Time per request: 25.412 [ms] (mean)  
Time per request: 0.051 [ms] (mean, across all concurrent requests)  
Transfer rate: 4131.08 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	4 1.7	3	9
Processing:	3	8 25.7	5	255
Waiting:	2	8 25.7	5	255
Total:	5	12 25.8	9	258

Percentage of the requests served within a certain time (ms)

50%	9
66%	11
75%	11
80%	11
90%	12

95%	17
98%	23
99%	253
100%	258 (longest request)

#### **Round 4**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 0.480 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2150000 bytes
HTML transferred:    60000 bytes
Requests per second: 20842.76 [#/sec] (mean)
Time per request:    23.989 [ms] (mean)
Time per request:    0.048 [ms] (mean, across all concurrent requests)
Transfer rate:       4376.16 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	4 1.7	4	9
Processing:	1	8 25.3	5	255
Waiting:	1	8 25.3	5	255
Total:	3	12 25.2	9	256

Percentage of the requests served within a certain time (ms)

50%	9
66%	11
75%	11
80%	11
90%	11
95%	17
98%	24
99%	253
100%	256 (longest request)

### Round 5

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /html.htm  
Document Length: 6 bytes

Concurrency Level: 500

Time taken for tests: 0.613 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2150000 bytes  
HTML transferred: 60000 bytes  
Requests per second: 16325.97 [#/sec] (mean)  
Time per request: 30.626 [ms] (mean)  
Time per request: 0.061 [ms] (mean, across all concurrent requests)  
Transfer rate: 3427.82 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	4 1.4	4	10
Processing:	2	7 20.9	5	253
Waiting:	2	7 20.9	5	253
Total:	4	11 20.8	8	256

Percentage of the requests served within a certain time (ms)

50%	8
66%	10
75%	10
80%	10
90%	11
95%	19
98%	26
99%	28
100%	256 (longest request)

**Round 6**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /html.htm  
Document Length: 6 bytes  
  
Concurrency Level: 500  
Time taken for tests: 0.784 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2150000 bytes  
HTML transferred: 60000 bytes  
Requests per second: 12755.39 [#/sec] (mean)  
Time per request: 39.199 [ms] (mean)  
Time per request: 0.078 [ms] (mean, across all concurrent requests)  
Transfer rate: 2678.13 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	3 1.1	3	9
Processing:	1	13 71.0	3	752
Waiting:	1	13 71.0	3	752
Total:	3	16 70.9	6	753

Percentage of the requests served within a certain time (ms)

50%	6
66%	6
75%	7
80%	7

```
90%      9
95%     21
98%     27
99%    257
100%    753 (longest request)
```

### Round 7

```
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```

Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 0.613 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2150000 bytes
HTML transferred:    60000 bytes
Requests per second: 16314.73 [#/sec] (mean)
Time per request:    30.647 [ms] (mean)
Time per request:    0.061 [ms] (mean, across all concurrent requests)
Transfer rate:       3425.46 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	4 1.4	3	10
Processing:	1	8 28.1	4	274
Waiting:	1	8 28.1	3	274
Total:	3	11 28.0	6	275

Percentage of the requests served within a certain time (ms)

50%	6
66%	9
75%	10
80%	10
90%	11
95%	19
98%	28
99%	273
100%	275 (longest request)

**Round 8**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /html.htm  
Document Length: 6 bytes

Concurrency Level: 500  
Time taken for tests: 0.689 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 2150000 bytes  
HTML transferred: 60000 bytes  
Requests per second: 14511.70 [#/sec] (mean)  
Time per request: 34.455 [ms] (mean)  
Time per request: 0.069 [ms] (mean, across all concurrent requests)  
Transfer rate: 3046.89 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	4 1.6	4	9
Processing:	1	11 36.6	5	256
Waiting:	1	11 36.6	5	256
Total:	3	15 36.6	8	258

Percentage of the requests served within a certain time (ms)

50%	8
66%	12
75%	13
80%	13
90%	14
95%	20
98%	250
99%	257
100%	258 (longest request)

**Round 9**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:        80

Document Path:      /html.htm
Document Length:    6 bytes

Concurrency Level:   500
Time taken for tests: 0.477 seconds
Complete requests:  10000
Failed requests:    0
Write errors:       0
Total transferred:  2150000 bytes
HTML transferred:   60000 bytes
Requests per second: 20970.34 [#/sec] (mean)
Time per request:   23.843 [ms] (mean)
Time per request:   0.048 [ms] (mean, across all concurrent requests)
Transfer rate:      4402.95 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	4 2.0	4	9
Processing:	1	10 30.7	6	255
Waiting:	1	10 30.8	6	255
Total:	3	14 30.7	10	257

Percentage of the requests served within a certain time (ms)

50%	10
66%	13
75%	14

80%	14
90%	14
95%	19
98%	24
99%	255
100%	257 (longest request)

**Round 10**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /html.htm
Document Length:     6 bytes

Concurrency Level:   500
Time taken for tests: 0.478 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   2150000 bytes
HTML transferred:    60000 bytes
Requests per second: 20906.11 [#/sec] (mean)
Time per request:    23.916 [ms] (mean)
Time per request:    0.048 [ms] (mean, across all concurrent requests)
Transfer rate:       4389.47 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	5 1.1	5	10
Processing:	2	7 15.4	6	251
Waiting:	2	7 15.4	6	251
Total:	6	12 15.2	11	251

Percentage of the requests served within a certain time (ms)

50%	11
66%	12
75%	12
80%	12
90%	12
95%	18
98%	26
99%	28
100%	251 (longest request)

## Simple PHP Page (echo.php)

### Round 1

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80
```

Document Path: /echo.php  
Document Length: 11 bytes

Concurrency Level: 300  
Time taken for tests: 3.442 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 1690000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2905.03 [#/sec] (mean)  
Time per request: 103.269 [ms] (mean)  
Time per request: 0.344 [ms] (mean, across all concurrent requests)  
Transfer rate: 479.44 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	4	46 321.1	10	3030
Waiting:	4	46 321.1	10	3030
Total:	7	47 321.5	10	3034

Percentage of the requests served within a certain time (ms)

50%	10
66%	11
75%	11
80%	12
90%	18
95%	21
98%	33
99%	3022
100%	3034 (longest request)

Round 2

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /echo.php  
Document Length: 11 bytes

Concurrency Level: 300  
Time taken for tests: 3.452 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 1690000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2896.97 [#/sec] (mean)  
Time per request: 103.556 [ms] (mean)  
Time per request: 0.345 [ms] (mean, across all concurrent requests)  
Transfer rate: 478.11 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	8	53 356.5	10	3030
Waiting:	8	53 356.5	10	3030
Total:	9	54 357.1	10	3036

Percentage of the requests served within a certain time (ms)

50%	10
66%	10
75%	11
80%	11
90%	12
95%	15
98%	31
99%	3025
100%	3036 (longest request)

### **Round 3**

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Benchmarking nginx (be patient)

Server Software:	nginx/1.0.11
Server Hostname:	nginx
Server Port:	80
Document Path:	/echo.php
Document Length:	11 bytes
Concurrency Level:	300
Time taken for tests:	3.732 seconds
Complete requests:	10000
Failed requests:	0
Write errors:	0
Total transferred:	1690000 bytes
HTML transferred:	110000 bytes

Requests per second: 2679.47 [#/sec] (mean)  
Time per request: 111.963 [ms] (mean)  
Time per request: 0.373 [ms] (mean, across all concurrent requests)  
Transfer rate: 442.22 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	8	56 368.7	10	3035
Waiting:	8	56 368.7	10	3035
Total:	9	57 369.2	10	3039

Percentage of the requests served within a certain time (ms)

50%	10
66%	10
75%	11
80%	11
90%	13
95%	15
98%	34
99%	3025
100%	3039 (longest request)

**Round 4**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx

Server Port: 80

Document Path: /echo.php

Document Length: 11 bytes

Concurrency Level: 300

Time taken for tests: 3.443 seconds

Complete requests: 10000

Failed requests: 0

Write errors: 0

Total transferred: 1690000 bytes

HTML transferred: 110000 bytes

Requests per second: 2904.80 [#/sec] (mean)

Time per request: 103.277 [ms] (mean)

Time per request: 0.344 [ms] (mean, across all concurrent requests)

Transfer rate: 479.41 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	7	53 351.4	10	3031
Waiting:	7	53 351.4	10	3031
Total:	7	54 351.9	10	3037

Percentage of the requests served within a certain time (ms)

50%	10
66%	11
75%	11
80%	12
90%	20
95%	21
98%	31
99%	3024
100%	3037 (longest request)



**Round 5**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /echo.php  
Document Length: 11 bytes  
  
Concurrency Level: 300  
Time taken for tests: 3.422 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 1690000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2922.17 [#/sec] (mean)  
Time per request: 102.664 [ms] (mean)  
Time per request: 0.342 [ms] (mean, across all concurrent requests)  
Transfer rate: 482.27 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	7	53 355.2	10	3031
Waiting:	7	53 355.2	10	3031
Total:	7	54 355.8	10	3037

Percentage of the requests served within a certain time (ms)

50%	10
66%	11
75%	11
80%	11
90%	13
95%	16
98%	30
99%	3024
100%	3037 (longest request)

### **Round 6**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /echo.php
Document Length:     11 bytes

Concurrency Level:   300
Time taken for tests: 3.463 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   1690000 bytes
```

HTML transferred: 110000 bytes  
Requests per second: 2888.02 [#/sec] (mean)  
Time per request: 103.877 [ms] (mean)  
Time per request: 0.346 [ms] (mean, across all concurrent requests)  
Transfer rate: 476.64 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	1 0.8	0	6
Processing:	3	53 356.2	9	3031
Waiting:	3	53 356.2	9	3031
Total:	7	54 356.6	10	3036

WARNING: The median and mean for the initial connection time are not within a normal deviation

These results are probably not that reliable.

Percentage of the requests served within a certain time (ms)

50%	10
66%	10
75%	10
80%	11
90%	12
95%	20
98%	32
99%	3022
100%	3036 (longest request)

**Round 7**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /echo.php  
Document Length: 11 bytes  
  
Concurrency Level: 300  
Time taken for tests: 3.400 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 1690000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2941.31 [#/sec] (mean)  
Time per request: 101.995 [ms] (mean)  
Time per request: 0.340 [ms] (mean, across all concurrent requests)  
Transfer rate: 485.43 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	7	54 355.5	10	3029
Waiting:	7	54 355.5	10	3029
Total:	7	54 356.0	10	3035

Percentage of the requests served within a certain time (ms)

50%	10
66%	11
75%	11
80%	12
90%	15
95%	20

```
98%      30
99%     3020
100%    3035 (longest request)
```

### **Round 8**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:      nginx
Server Port:          80

Document Path:        /echo.php
Document Length:      11 bytes

Concurrency Level:    300
Time taken for tests:  3.922 seconds
Complete requests:    10000
Failed requests:      0
Write errors:         0
Total transferred:    1690000 bytes
HTML transferred:     110000 bytes
Requests per second:  2549.68 [#/sec] (mean)
Time per request:     117.662 [ms] (mean)
Time per request:     0.392 [ms] (mean, across all concurrent requests)
Transfer rate:        420.80 [Kbytes/sec] received
```

Connection Times (ms)

```
min mean[+/-sd] median max
```

```
Connect:      0    0  0.8    0    6
Processing:   6   56 356.7   10  3033
Waiting:      6   56 356.7   10  3033
Total:        7   56 357.2   11  3038
```

Percentage of the requests served within a certain time (ms)

```
50%    11
66%    12
75%    18
80%    19
90%    20
95%    20
98%    29
99%   3024
100%  3038 (longest request)
```

### Round 9

```
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```

Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:      nginx
Server Port:          80

Document Path:        /echo.php
Document Length:      11 bytes

Concurrency Level:    300
Time taken for tests:  3.672 seconds
```

```
Complete requests:      10000
Failed requests:        0
Write errors:           0
Total transferred:      1690000 bytes
HTML transferred:       110000 bytes
Requests per second:    2723.31 [#/sec] (mean)
Time per request:       110.160 [ms] (mean)
Time per request:       0.367 [ms] (mean, across all concurrent requests)
Transfer rate:          449.45 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	3	51 343.7	10	3028
Waiting:	3	51 343.7	10	3028
Total:	9	51 344.2	10	3034

Percentage of the requests served within a certain time (ms)

50%	10
66%	10
75%	11
80%	11
90%	12
95%	19
98%	31
99%	3023
100%	3034 (longest request)

**Round 10**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /echo.php  
Document Length: 11 bytes  
  
Concurrency Level: 300  
Time taken for tests: 3.582 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 1690000 bytes  
HTML transferred: 110000 bytes  
Requests per second: 2791.71 [#/sec] (mean)  
Time per request: 107.461 [ms] (mean)  
Time per request: 0.358 [ms] (mean, across all concurrent requests)  
Transfer rate: 460.74 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	0 0.8	0	6
Processing:	7	46 315.7	10	3032
Waiting:	7	46 315.7	10	3032
Total:	7	46 316.1	10	3037

Percentage of the requests served within a certain time (ms)

50%	10
66%	11
75%	13
80%	18
90%	19



```
95%      20
98%      30
99%     3019
100%    3037 (longest request)
```

## PHP Page with Looping (loop.php)

### Round 1

```
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```

Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /index.php
Document Length:     78901 bytes

Concurrency Level:   50
Time taken for tests: 67.590 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790590000 bytes
HTML transferred:   789010000 bytes
Requests per second: 147.95 [#/sec] (mean)
Time per request:    337.951 [ms] (mean)
Time per request:    6.759 [ms] (mean, across all concurrent requests)
Transfer rate:       11422.68 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	44 10.7	42	72
Processing:	28	294 14.3	296	391
Waiting:	3	47 10.2	44	99
Total:	29	337 9.3	338	434

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	340
90%	341
95%	344
98%	348
99%	351
100%	434 (longest request)

**Round 2**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php  
Document Length: 78901 bytes

```
Concurrency Level:      50
Time taken for tests:   67.587 seconds
Complete requests:     10000
Failed requests:       0
Write errors:          0
Total transferred:     790590000 bytes
HTML transferred:     789010000 bytes
Requests per second:   147.96 [#/sec] (mean)
Time per request:      337.935 [ms] (mean)
Time per request:      6.759 [ms] (mean, across all concurrent requests)
Transfer rate:         11423.21 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	45 9.8	43	74
Processing:	27	293 13.6	295	552
Waiting:	3	47 9.4	45	102
Total:	28	337 9.4	338	595

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	340
90%	341
95%	343
98%	347
99%	352
100%	595 (longest request)

**Round 3**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:        80

Document Path:      /loop.php
Document Length:    78901 bytes

Concurrency Level:   50
Time taken for tests: 67.588 seconds
Complete requests:  10000
Failed requests:    0
Write errors:       0
Total transferred:  790590000 bytes
HTML transferred:   789010000 bytes
Requests per second: 147.96 [#/sec] (mean)
Time per request:   337.939 [ms] (mean)
Time per request:   6.759 [ms] (mean, across all concurrent requests)
Transfer rate:      11423.09 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	44 10.2	44	78
Processing:	24	294 13.7	294	379
Waiting:	3	47 10.1	46	101
Total:	25	337 9.4	338	389

Percentage of the requests served within a certain time (ms)

```
50%    338
66%    339
```

75%	339
80%	340
90%	341
95%	343
98%	348
99%	353
100%	389 (longest request)

#### Round 4

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:        80

Document Path:      /loop.php
Document Length:    78901 bytes

Concurrency Level:   50
Time taken for tests: 67.590 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790590000 bytes
HTML transferred:    789010000 bytes
Requests per second: 147.95 [#/sec] (mean)
Time per request:    337.951 [ms] (mean)
Time per request:    6.759 [ms] (mean, across all concurrent requests)
```

Transfer rate: 11422.68 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	44 10.7	42	72
Processing:	28	294 14.3	296	391
Waiting:	3	47 10.2	44	99
Total:	29	337 9.3	338	434

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	340
90%	341
95%	344
98%	348
99%	351
100%	434 (longest request)

**Round 5**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php

Document Length: 78901 bytes

Concurrency Level: 50

Time taken for tests: 67.593 seconds

Complete requests: 10000

Failed requests: 0

Write errors: 0

Total transferred: 790590000 bytes

HTML transferred: 789010000 bytes

Requests per second: 147.94 [#/sec] (mean)

Time per request: 337.967 [ms] (mean)

Time per request: 6.759 [ms] (mean, across all concurrent requests)

Transfer rate: 11422.13 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	43 11.9	39	73
Processing:	46	295 16.4	299	396
Waiting:	10	46 11.4	42	100
Total:	47	337 9.6	338	461

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	340
80%	341
90%	343
95%	346
98%	351
99%	356
100%	461 (longest request)

**Round 6**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:        80

Document Path:      /loop.php
Document Length:    78901 bytes

Concurrency Level:   50
Time taken for tests: 67.593 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790590000 bytes
HTML transferred:   789010000 bytes
Requests per second: 147.94 [#/sec] (mean)
Time per request:    337.967 [ms] (mean)
Time per request:    6.759 [ms] (mean, across all concurrent requests)
Transfer rate:       11422.13 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	43 11.4	41	78
Processing:	36	294 15.5	297	386
Waiting:	3	46 10.9	43	110
Total:	37	337 10.2	338	396

Percentage of the requests served within a certain time (ms)

50% 338



66%	339
75%	340
80%	340
90%	342
95%	345
98%	350
99%	356
100%	396 (longest request)

### Round 7

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /loop.php
Document Length:     78901 bytes

Concurrency Level:   50
Time taken for tests: 67.589 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790590000 bytes
HTML transferred:   789010000 bytes
Requests per second: 147.95 [#/sec] (mean)
Time per request:    337.943 [ms] (mean)
```

Time per request: 6.759 [ms] (mean, across all concurrent requests)  
Transfer rate: 11422.95 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	57 203.0	43	3005
Processing:	12	281 58.4	293	375
Waiting:	2	44 13.4	45	96
Total:	16	338 214.3	338	3380

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	340
90%	341
95%	344
98%	349
99%	356
100%	3380 (longest request)

**Round 8**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php  
Document Length: 78901 bytes

Concurrency Level: 50  
Time taken for tests: 67.609 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 790590000 bytes  
HTML transferred: 789010000 bytes  
Requests per second: 147.91 [#/sec] (mean)  
Time per request: 338.047 [ms] (mean)  
Time per request: 6.761 [ms] (mean, across all concurrent requests)  
Transfer rate: 11419.41 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	46 8.3	46	72
Processing:	133	292 11.3	292	712
Waiting:	3	48 7.7	48	118
Total:	134	338 8.0	338	755

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	339
90%	341
95%	342
98%	346
99%	350
100%	755 (longest request)

**Round 9**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /loop.php  
Document Length: 78901 bytes

Concurrency Level: 50  
Time taken for tests: 67.593 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 790590000 bytes  
HTML transferred: 789010000 bytes  
Requests per second: 147.94 [#/sec] (mean)  
Time per request: 337.967 [ms] (mean)  
Time per request: 6.759 [ms] (mean, across all concurrent requests)  
Transfer rate: 11422.13 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	44 10.5	43	71
Processing:	87	294 14.2	295	660
Waiting:	10	47 10.4	47	102
Total:	87	337 9.5	338	706

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	340
90%	341
95%	344
98%	347
99%	351
100%	706 (longest request)

### **Round 10**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /loop.php
Document Length:     78901 bytes

Concurrency Level:   50
Time taken for tests: 67.589 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   790590000 bytes
HTML transferred:   789010000 bytes
Requests per second: 147.95 [#/sec] (mean)
```

Time per request: 337.943 [ms] (mean)  
Time per request: 6.759 [ms] (mean, across all concurrent requests)  
Transfer rate: 11422.94 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	1	45 7.8	45	75
Processing:	34	292 11.0	293	379
Waiting:	5	49 7.4	48	100
Total:	35	338 8.5	338	379

Percentage of the requests served within a certain time (ms)

50%	338
66%	339
75%	339
80%	339
90%	341
95%	342
98%	345
99%	349
100%	379 (longest request)

## Image File (image.png)

### Round 1

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /image.png  
Document Length: 13390 bytes  
  
Concurrency Level: 200  
Time taken for tests: 11.854 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136030000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 843.63 [#/sec] (mean)  
Time per request: 237.071 [ms] (mean)  
Time per request: 1.185 [ms] (mean, across all concurrent requests)  
Transfer rate: 11206.90 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	47 20.2	49	76
Processing:	67	189 19.8	187	233
Waiting:	2	45 18.5	46	82
Total:	71	236 8.0	237	241

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237
95%	238
98%	239
99%	240

100% 241 (longest request)

**Round 2**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /image.png  
Document Length: 13390 bytes

Concurrency Level: 200  
Time taken for tests: 11.854 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136030000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 843.63 [#/sec] (mean)  
Time per request: 237.070 [ms] (mean)  
Time per request: 1.185 [ms] (mean, across all concurrent requests)  
Transfer rate: 11206.95 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	47 20.1	49	76
Processing:	59	189 19.7	188	233



```
Waiting:      2   45  18.3   46   82
Total:       63  236   8.0  237  241
```

Percentage of the requests served within a certain time (ms)

```
50%    237
66%    237
75%    237
80%    237
90%    237
95%    238
98%    239
99%    240
100%   241 (longest request)
```

### **Round 3**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:      nginx
Server Port:          80
```

```
Document Path:        /image.png
Document Length:      13390 bytes
```

```
Concurrency Level:    200
Time taken for tests:  11.854 seconds
Complete requests:    10000
Failed requests:      0
```

```
Write errors:          0
Total transferred:    136030000 bytes
HTML transferred:    133900000 bytes
Requests per second:  843.62 [#/sec] (mean)
Time per request:    237.072 [ms] (mean)
Time per request:    1.185 [ms] (mean, across all concurrent requests)
Transfer rate:       11206.86 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	47 20.1	48	76
Processing:	92	189 19.7	188	233
Waiting:	2	45 18.2	45	82
Total:	96	236 7.8	237	241

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237
95%	238
98%	239
99%	240
100%	241 (longest request)

**Round 4**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /image.png  
Document Length: 13390 bytes  
  
Concurrency Level: 200  
Time taken for tests: 11.854 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136030000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 843.63 [#/sec] (mean)  
Time per request: 237.071 [ms] (mean)  
Time per request: 1.185 [ms] (mean, across all concurrent requests)  
Transfer rate: 11206.93 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	48 20.1	49	76
Processing:	67	188 19.7	187	233
Waiting:	2	46 18.4	46	82
Total:	71	236 8.0	237	241

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237
95%	238
98%	239

99% 240  
100% 241 (longest request)

### **Round 5**

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80

Document Path: /image.png  
Document Length: 13390 bytes

Concurrency Level: 200  
Time taken for tests: 11.854 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136030000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 843.62 [#/sec] (mean)  
Time per request: 237.073 [ms] (mean)  
Time per request: 1.185 [ms] (mean, across all concurrent requests)  
Transfer rate: 11206.84 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	48 20.0	49	76

Processing:	58	188	19.6	187	233
Waiting:	2	46	18.3	46	82
Total:	62	236	8.0	237	242

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237
95%	238
98%	239
99%	240
100%	242 (longest request)

## Round 6

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Benchmarking nginx (be patient)

Server Software: nginx/1.0.11

Server Hostname: nginx

Server Port: 80

Document Path: /image.png

Document Length: 13390 bytes

Concurrency Level: 200

Time taken for tests: 11.855 seconds

Complete requests: 10000

```
Failed requests:      0
Write errors:        0
Total transferred:   136030000 bytes
HTML transferred:    133900000 bytes
Requests per second: 843.56 [#/sec] (mean)
Time per request:    237.091 [ms] (mean)
Time per request:    1.185 [ms] (mean, across all concurrent requests)
Transfer rate:       11205.98 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	47 20.1	49	76
Processing:	68	189 19.7	187	237
Waiting:	2	45 18.4	46	215
Total:	72	236 8.0	237	258

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237
95%	238
98%	239
99%	240
100%	258 (longest request)

**Round 7**

```
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```

Benchmarking nginx (be patient)

Server Software: nginx/1.0.11  
Server Hostname: nginx  
Server Port: 80  
  
Document Path: /image.png  
Document Length: 13390 bytes  
  
Concurrency Level: 200  
Time taken for tests: 11.855 seconds  
Complete requests: 10000  
Failed requests: 0  
Write errors: 0  
Total transferred: 136030000 bytes  
HTML transferred: 133900000 bytes  
Requests per second: 843.50 [#/sec] (mean)  
Time per request: 237.107 [ms] (mean)  
Time per request: 1.186 [ms] (mean, across all concurrent requests)  
Transfer rate: 11205.21 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	35 37.4	29	3036
Processing:	71	202 23.3	208	451
Waiting:	2	47 19.8	46	108
Total:	75	236 30.7	237	3242

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237
95%	238

```
98%    238
99%    238
100%   3242 (longest request)
```

### **Round 8**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:      nginx
Server Port:          80

Document Path:        /image.png
Document Length:      13390 bytes

Concurrency Level:    200
Time taken for tests:  11.854 seconds
Complete requests:    10000
Failed requests:      0
Write errors:         0
Total transferred:    136030000 bytes
HTML transferred:    133900000 bytes
Requests per second:  843.62 [#/sec] (mean)
Time per request:     237.075 [ms] (mean)
Time per request:     1.185 [ms] (mean, across all concurrent requests)
Transfer rate:        11206.75 [Kbytes/sec] received
```

Connection Times (ms)

```
min mean[+/-sd] median max
```



Connect:	2	35	22.1	29	113
Processing:	40	202	22.8	208	234
Waiting:	2	47	20.1	46	110
Total:	44	236	5.7	237	240

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	238
95%	238
98%	238
99%	238
100%	240 (longest request)

### Round 9

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Benchmarking nginx (be patient)

Server Software:	nginx/1.0.11
Server Hostname:	nginx
Server Port:	80
Document Path:	/image.png
Document Length:	13390 bytes
Concurrency Level:	200
Time taken for tests:	11.854 seconds

```
Complete requests:      10000
Failed requests:        0
Write errors:           0
Total transferred:      136030000 bytes
HTML transferred:      133900000 bytes
Requests per second:    843.62 [#/sec] (mean)
Time per request:       237.074 [ms] (mean)
Time per request:       1.185 [ms] (mean, across all concurrent requests)
Transfer rate:          11206.76 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	35 22.5	29	113
Processing:	45	201 23.1	208	234
Waiting:	2	48 19.5	46	110
Total:	49	236 5.5	237	240

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237
95%	238
98%	238
99%	238
100%	240 (longest request)

**Round 10**

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Benchmarking nginx (be patient)

```
Server Software:      nginx/1.0.11
Server Hostname:     nginx
Server Port:         80

Document Path:       /image.png
Document Length:     13390 bytes

Concurrency Level:   200
Time taken for tests: 11.854 seconds
Complete requests:   10000
Failed requests:     0
Write errors:        0
Total transferred:   136030000 bytes
HTML transferred:    133900000 bytes
Requests per second: 843.62 [#/sec] (mean)
Time per request:    237.072 [ms] (mean)
Time per request:    1.185 [ms] (mean, across all concurrent requests)
Transfer rate:       11206.85 [Kbytes/sec] received
```

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	2	35 22.7	29	113
Processing:	44	201 23.3	208	234
Waiting:	2	48 19.4	46	110
Total:	49	236 5.5	237	239

Percentage of the requests served within a certain time (ms)

50%	237
66%	237
75%	237
80%	237
90%	237

95%	238
98%	238
99%	238
100%	239 (longest request)