Laporan Tugas 10

Pemrograman Jaringan

Dosen :

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Pemrograman Jaringan – B

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A. Soal
1. Pull update terbaru
2. Jalankan async_server.py pada port 9002, 9003, 9004, 9005 (lihat pada BackendList)
3. Jalankan file lb.py, jalankan di port 44444
4. Jalankan browser, akseslah http://localhost:44444/page.html
5. Lihatlah di log program, bahwa setiap request akan dilayani oleh backend yang bergantian
6. Lakukan performance test seperti pada tugas 9, bandingkan penggunaan load balancer dengan async_server dengan server_thread_http pada folder progjar5
7. Buatlah tabel hasilnya

B. Jawaban
1. Jalankan file async_server.py pada port 9002, 9003, 9004, 9005
2. Jalankan file lb.py pada port 44444
3. Mengakses http://localhost:44444/page.html pada web browser
4. Lihat log dari lb.py
5. Hasil performance test
    a. Port 45000 Server_async_http.py
       Jumlah request : 1000

No test	Concurrency level	Time taken for test [seconds]	Complete request	Failed request	Total transferred [bytes]	Request per second [#/sec]	Time per request [ms]	Transfer rate [Kbytes/ sec]
1	1	7.528	1000	0	122000	132.84	7.528	74.16
2	5	0.731	1000	0	122000	1368.26	3.654	163.02
3	10	72.321	1000	0	122000	13.83	723.208	1.65
4	50	63.810	1000	0	122000	15.67	3190.521	1.87
5	100	64.813	1000	0	122000	15.43	6481.274	1.84
6	250	65.999	1000	0	122000	15.15	16499.863	1.81
7	500	66.286	1000	0	122000	14.96	33413.018	1.78
8	1000	70.832	1000	0	122000	14.12	70832.143	1.68

    b. Port 46000 Server_thread_http.py
       Jumlah request : 1000

No test	Concurrency level	Time taken for test [seconds]	Complete request	Failed request	Total transferred [bytes]	Request per second [#/sec]	Time per request [ms]	Transfer rate [Kbytes/ sec]
1	1	147.975	1000	0	122000	6.76	147.975	0.81
2	5	260.660	1000	0	122000	3.84	1303.299	0.46
3	10	250.351	1000	0	122000	3.99	2503.509	0.48
4	50	263.431	1000	0	122000	3.80	13171.547	0.45
5	100	391.736	1000	0	122000	2.55	39173.610	0.30
6	250	253.066	1000	0	122000	3.95	63266.570	0.47
7	500	250.360	1000	0	122000	3.99	125179.848	0.48
8	1000	259.717	1000	0	122000	3.85	259716.878	0.46

6. Kesimpulan
Dari percobaan yang telah saya lakukan, perbedaan waktu antara server async yang menggunakan load balancer dan server thread sangat signifikan. Jadi bisa disimpulkan bahwa server async (asynchronous) dengan load balancer jauh lebih cepat bila dibandingkan dengan server thread (multithread).

7. Screenshot
    a. Server Asynchronus
       1. Concurrency 1

```
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      1
Time taken for tests:   0.654 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    1528.46 [#/sec] (mean)
Time per request:       0.654 [ms] (mean)
Time per request:       0.654 [ms] (mean, across all concurrent requests)
Transfer rate:          182.10 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    0   0.0      0       0
Processing:     0    1   0.5      1       9
Waiting:        0    1   0.5      0       9
Total:          0    1   0.5      1       9
WARNING: The median and mean for the waiting time are not within a normal devi
        These results are probably not that reliable.

Percentage of the requests served within a certain time (ms)
  50%      1
  66%      1
  75%      1
  80%      1
  90%      1
  95%      1
  98%      1
  99%      2
 100%      9 (longest request)
```

2. Concurrency 5

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      5
Time taken for tests:   0.354 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    2827.31 [#/sec] (mean)
Time per request:       1.768 [ms] (mean)
Time per request:       0.354 [ms] (mean, across all concurrent requests)
Transfer rate:          336.85 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    0   0.0      0        1
Processing:     0    2   1.5      1       11
Waiting:        0    2   1.5      1       11
Total:          0    2   1.5      1       11

Percentage of the requests served within a certain time (ms)
  50%      1
  66%      2
  75%      2
  80%      2
  90%      3
  95%      5
  98%      8
  99%     10
 100%     11 (longest request)
```
3. Concurrency 10

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      10
Time taken for tests:   0.292 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    3422.36 [#/sec] (mean)
Time per request:       2.922 [ms] (mean)
Time per request:       0.292 [ms] (mean, across all concurrent requests)
Transfer rate:          407.74 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    0   0.2      0        6
Processing:     0    2   1.2      2       10
Waiting:        0    2   1.2      1       10
Total:          0    2   1.2      2       10

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      2
  80%      2
  90%      3
  95%      5
  98%      7
  99%      8
 100%     10 (longest request)
```

4. Concurrency 25

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      25
Time taken for tests:   1.123 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    890.21 [#/sec] (mean)
Time per request:       28.083 [ms] (mean)
Time per request:       1.123 [ms] (mean, across all concurrent requests)
Transfer rate:          106.06 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    0   0.0      0        0
Processing:     0    3  31.7      2     1004
Waiting:        0    3  31.7      1     1004
Total:          0    3  31.7      2     1004

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      2
  80%      2
  90%      3
  95%      5
  98%      7
  99%      9
 100%   1004 (longest request)
```

5. Concurrency 50

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      50
Time taken for tests:   0.357 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    2803.65 [#/sec] (mean)
Time per request:       17.834 [ms] (mean)
Time per request:       0.357 [ms] (mean, across all concurrent requests)
Transfer rate:          334.03 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    0   0.1      0        1
Processing:     0    2   2.1      2       19
Waiting:        0    2   2.1      1       19
Total:          0    2   2.1      2       19

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      2
  80%      2
  90%      4
  95%      6
  98%     11
  99%     14
 100%     19 (longest request)
```

6. Concurrency

```
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      100
Time taken for tests:   0.268 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    3737.16 [#/sec] (mean)
Time per request:       26.758 [ms] (mean)
Time per request:       0.268 [ms] (mean, across all concurrent requests)
Transfer rate:          445.25 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    0   0.1      0        1
Processing:     0    2   0.8      2        7
Waiting:        0    2   0.8      1        7
Total:          0    2   0.8      2        7
WARNING: The median and mean for the waiting time are not within a normal devi
        These results are probably not that reliable.

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      2
  80%      2
  90%      3
  95%      4
  98%      4
  99%      5
 100%      7 (longest request)
```

7. Concurrency 250

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      250
Time taken for tests:   0.340 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    2940.73 [#/sec] (mean)
Time per request:       85.013 [ms] (mean)
Time per request:       0.340 [ms] (mean, across all concurrent requests)
Transfer rate:          350.36 [Kbytes/sec] received

Connection Times (ms)
            min  mean[+/-sd] median    max
Connect:       0    0   0.3      0        3
Processing:    0    3   2.0      2       17
Waiting:       0    2   2.0      2       16
Total:         0    3   2.1      2       17

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      3
  80%      3
  90%      5
  95%      7
  98%      9
  99%     10
 100%     17 (longest request)
```

8. Concurrency 500

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      500
Time taken for tests:   0.316 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    3161.55 [#/sec] (mean)
Time per request:       158.150 [ms] (mean)
Time per request:       0.316 [ms] (mean, across all concurrent requests)
Transfer rate:          376.67 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    0   0.7      0       5
Processing:     0    2   1.4      2      13
Waiting:        0    2   1.4      1      13
Total:          0    2   1.6      2      13

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      2
  80%      3
  90%      4
  95%      6
  98%      8
  99%      9
 100%     13 (longest request)
```

9. Concurrency 1000

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      1000
Time taken for tests:   0.334 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    2990.72 [#/sec] (mean)
Time per request:       334.368 [ms] (mean)
Time per request:       0.334 [ms] (mean, across all concurrent requests)
Transfer rate:          356.32 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    1    3.1      0       17
Processing:     0    5   10.3      2       48
Waiting:        0    4    8.8      2       47
Total:          0    6   12.4      2       65

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      3
  75%      3
  80%      4
  90%      7
  95%     49
  98%     58
  99%     62
 100%     65 (longest request)
```

b. Server Thread
    1. Concurrency 1

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      1
Time taken for tests:   0.752 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    1329.38 [#/sec] (mean)
Time per request:       0.752 [ms] (mean)
Time per request:       0.752 [ms] (mean, across all concurrent requests)
Transfer rate:          158.38 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    0   0.0      0       0
Processing:     0    1   1.0      1      12
Waiting:        0    1   1.0      0      12
Total:          0    1   1.0      1      12

Percentage of the requests served within a certain time (ms)
  50%      1
  66%      1
  75%      1
  80%      1
  90%      1
  95%      1
  98%      4
  99%      7
 100%     12 (longest request)
```

2. Concurrency 5

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      5
Time taken for tests:   1.342 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    745.26 [#/sec] (mean)
Time per request:       6.709 [ms] (mean)
Time per request:       1.342 [ms] (mean, across all concurrent requests)
Transfer rate:          88.79 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    2   45.8      0     1024
Processing:     0    3    4.3      2       67
Waiting:        0    3    4.3      2       67
Total:          0    5   46.2      2     1036

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      2
  80%      3
  90%      6
  95%     10
  98%     13
  99%     17
 100%   1036 (longest request)
```
3. Concurrency 10

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      10
Time taken for tests:   1.858 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    538.13 [#/sec] (mean)
Time per request:       18.583 [ms] (mean)
Time per request:       1.858 [ms] (mean, across all concurrent requests)
Transfer rate:          64.11 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    8  90.8      0    1036
Processing:     0    5  33.4      2     834
Waiting:        0    5  33.4      2     834
Total:          0   13 116.4      2    1852

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      3
  80%      3
  90%      6
  95%     10
  98%     13
  99%     17
 100%   1852 (longest request)
```

4. Concurrency 25

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      25
Time taken for tests:   14.391 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    69.49 [#/sec] (mean)
Time per request:       359.773 [ms] (mean)
Time per request:       14.391 [ms] (mean, across all concurrent requests)
Transfer rate:          8.28 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    23 151.0      0    1027
Processing:     0    57 689.7      2   13379
Waiting:        0    57 689.7      2   13379
Total:          0    81 778.3      2   14382

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      3
  80%      4
  90%      7
  95%     12
  98%   1029
  99%   1844
 100%  14382 (longest request)
```

5. Concurrency 50

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      50
Time taken for tests:   0.953 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    1049.06 [#/sec] (mean)
Time per request:       47.662 [ms] (mean)
Time per request:       0.953 [ms] (mean, across all concurrent requests)
Transfer rate:          124.99 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    0   0.0      0       1
Processing:     0    2   1.6      1      12
Waiting:        0    2   1.6      1      12
Total:          0    2   1.6      1      12

Percentage of the requests served within a certain time (ms)
  50%      1
  66%      2
  75%      2
  80%      2
  90%      3
  95%      5
  98%      9
  99%      9
 100%     12 (longest request)
```

6. Concurrency 100

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      100
Time taken for tests:   0.856 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    1167.98 [#/sec] (mean)
Time per request:       85.618 [ms] (mean)
Time per request:       0.856 [ms] (mean, across all concurrent requests)
Transfer rate:          139.15 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    0   0.1      0        1
Processing:     0    2   1.4      1       11
Waiting:        0    2   1.4      1       11
Total:          0    2   1.4      1       11

Percentage of the requests served within a certain time (ms)
  50%      1
  66%      1
  75%      2
  80%      2
  90%      2
  95%      4
  98%      8
  99%      9
 100%     11 (longest request)
```

7. Concurrency 250

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      250
Time taken for tests:   0.941 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    1062.97 [#/sec] (mean)
Time per request:       235.190 [ms] (mean)
Time per request:       0.941 [ms] (mean, across all concurrent requests)
Transfer rate:          126.64 [Kbytes/sec] received

Connection Times (ms)
             min  mean[+/-sd] median    max
Connect:       0    0    0.2      0        2
Processing:    0    2    7.1      1      219
Waiting:       0    2    7.0      1      219
Total:         0    2    7.1      1      219

Percentage of the requests served within a certain time (ms)
  50%      1
  66%      2
  75%      2
  80%      2
  90%      3
  95%      6
  98%      9
  99%      9
 100%    219 (longest request)
```

8. Concurrency 500

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      500
Time taken for tests:   42.762 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    23.39 [#/sec] (mean)
Time per request:       21380.785 [ms] (mean)
Time per request:       42.762 [ms] (mean, across all concurrent requests)
Transfer rate:          2.79 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    13 114.9      0    1018
Processing:     1   102 1798.3      2   42749
Waiting:        0   102 1798.3      2   42749
Total:          1   115 1812.2      2   42749

Percentage of the requests served within a certain time (ms)
  50%      2
  66%      2
  75%      3
  80%      3
  90%      7
  95%     10
  98%     21
  99%   1419
 100%  42749 (longest request)
```

9. Concurrency 1000

```
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests


Server Software:        myserver/1.0
Server Hostname:        localhost
Server Port:            44444

Document Path:          /
Document Length:        4 bytes

Concurrency Level:      1000
Time taken for tests:   0.855 seconds
Complete requests:      1000
Failed requests:        0
Non-2xx responses:      1000
Total transferred:      122000 bytes
HTML transferred:       4000 bytes
Requests per second:    1169.34 [#/sec] (mean)
Time per request:       855.183 [ms] (mean)
Time per request:       0.855 [ms] (mean, across all concurrent requests)
Transfer rate:          139.32 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median    max
Connect:        0    0   1.3      0       11
Processing:     0    3   5.2      1       39
Waiting:        0    3   5.2      1       39
Total:          0    3   6.3      1       46

Percentage of the requests served within a certain time (ms)
  50%      1
  66%      1
  75%      2
  80%      2
  90%      3
  95%      8
  98%     33
  99%     40
 100%     46 (longest request)
```