Performance Test – Tugas 9

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Pemrograman Jaringan C

A. Parameter test

Jumlah request: 1000

Concurrency: 1,10,25,50,75,100

B. Hasil Performance Test

1. Server Async ('127.0.0.1:45000')

No Test	Concurrency level	Time taken for test (s)	Complete request	Failed request	Total transferred (bytes)	Request per second (#/sec)	Time per request (ms)	Transfer rate (Kbytes/ sec)
1	1	0.044	1000	0	122000	2729.56	0.366	325.2
2	10	0.333	1000	0	122000	3002.3	0.333	357.7
3	25	0.332	1000	0	122000	3015.25	0.332	359.24
4	50	0.331	1000	0	122000	3019.13	0.331	359.7
5	75	0.337	1000	0	122000	2969.5	0.337	353.79
6	100	0.335	1000	0	122000	2983.24	0.335	355.43

2. Server Thread ('127.0.0.1:46000')

No Test	Concurrency level	Time taken for test (s)	Complete request	Failed request	Total transferred (bytes)	Request per second (#/sec)	Time per request (ms)	Transfer rate (Kbytes/s ec)
1	1	0.624	1000	0	122000	1603.09	0.624	190.99
2	10	0.605	1000	0	122000	1652.19	0.605	196.84
3	25	0.599	1000	0	122000	1668.92	0.599	198.84
4	50	0.62	1000	0	122000	1613.63	0.62	192.25
5	75	0.618	1000	0	122000	1619.23	0.618	192.92
6	100	0.616	1000	0	122000	1624.22	0.616	193.51

C. Analisis dan Kesimpulan

Setelah pengujian performa, dapat dlihat bahwa server async memiliki peforma yang **lebih cepat** dibandingkan server thread. Hal tersebut dapat dilihat dari time per request dan transfer per rate.

D. Lampiran (Server Async)

```
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_...🛑 🏮 (
File Edit View Search Terminal Help
                                     127.0.0.1
45000
Concurrency Level:
Time taken for tests:
Non-2xx responses:
Total transferred:
                                     122000 bytes
                                    0.366 [ms] (mean)
0.366 [ms] (mean, across all concurrent requests)
325.20 [Kbytes/sec] received
Time per request:
Transfer rate:
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🛑 🌘 🛑
File Edit View Search Terminal Help
                                     127.0.0.1
45000
                                     3002.30 [#/sec] (mean)
3.331 [ms] (mean)
0.333 [ms] (mean, across all concurrent requests)
357.70 [Kbytes/sec] received
```

```
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🛑 🔘 🌘
File Edit View Search Terminal Help
Total transferred:
HTML transferred:
                                122000 bytes
                               4000 bytes
3015.25 [#/sec] (mean)
8.291 [ms] (mean)
0.332 [ms] (mean, across all concurrent requests)
Total:
  99%
 100%
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🔵 🔘
File Edit View Search Terminal Help
                                4 bytes
                                4000 bytes
3019.13 [#/sec] (mean)
Requests per second:
                                16.561 [ms] (mean)
0.331 [ms] (mean, across all concurrent requests)
Time per request:
```

```
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_...\varTheta 🔘
File Edit View Search Terminal Help
                                    127.0.0.1
45000
Concurrency Level:
Time taken for tests:
                                    122000 bytes
                                   25.257 [ms] (mean)
0.337 [ms] (mean, across all concurrent requests)
353.79 [Kbytes/sec] received
Time per request:
Transfer rate:
pootreth@yemimasutanto:/media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🔵 💿 (
File Edit View Search Terminal Help
Concurrency Level:
Time taken for tests:
                                   2983.24 [#/sec] (mean)
33.521 [ms] (mean)
0.335 [ms] (mean, across all concurrent requests)
355.43 [Kbytes/sec] received
ime per request:
ime per request:
ransfer rate:
Percentage of the requests served within a certain time (ms)
```

(Server Thread)

```
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🛑 🔘
Server Hostname:
Server Port:
                                  127.0.0.1
46000
Document Path:
Document Length:
                                   4 bytes
                                  0.624 seconds
Total transferred:
HTML transferred:
                                  4000 bytes

1603.09 [#/sec] (mean)

0.624 [ms] (mean)

0.624 [ms] (mean, across all concurrent requests)
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🧶 🌘 (
File Edit View Search Terminal Help
                                   122000 bytes
                                   4000 bytes
                                  1652.19 [#/sec] (mean)
6.053 [ms] (mean)
0.605 [ms] (mean, across all concurrent requests)
196.84 [Kbytes/sec] received
 ime per request:
 ime per request:
 Percentage of the requests served within a certain time (ms)
  90%
95%
```

```
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🛑 🌒
File Edit View Search Terminal Help
 otal transferred:
                                   122000 bytes
                                  122000 Bytes
4000 bytes
1668.92 [#/sec] (mean)
14.980 [ms] (mean)
0.599 [ms] (mean, across all concurrent requests)
 Time per request:
Transfer rate:
 pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_....
 File Edit View Search Terminal Help
Server Hostname:
Server Port:
                                   127.0.0.1
46000
 Concurrency Level:
Time taken for tests:
                                   0.620 [ms] (mean, across all concurrent requests)
192.25 [Kbytes/sec] received
```

```
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_...🛑 🌘 🧶
File Edit View Search Terminal Help
Server Software:
Server Hostname:
                                    122000 bytes
                                   4000 bytes

1619.23 [#/sec] (mean)

46.318 [ms] (mean)

0.618 [ms] (mean, across all concurrent requests)

192.92 [Kbytes/sec] received
Time per request:
Percentage of the requests served within a certain time (ms)
 99%
100%
               14 (longest request)
pootreth@yemimasutanto: /media/pootreth/rahasianegara/KULIAH/Semester 6/Progjar C/PROGJAR_... 🔵 🌘 🧧
File Edit View Search Terminal Help
                                    4 bytes
Concurrency Level:
Time taken for tests:
                                   4000 bytes

1624.22 [#/sec] (mean)

61.568 [ms] (mean)

0.616 [ms] (mean, across all concurrent requests)

193.51 [Kbytes/sec] received
Time per request:
                               0 0.1
2 0.7
```