Certain Performance Factors

Table of Contents

1. Number of requests per second for 1 client. 1

2. Number of requests per second for 2 clients running simultaneously 1

3. Number of requests per second for 4 clients running simultaneously 1

4. Number of requests per second for 8 clients running simultaneously 2

# Note: The request in the following sections can either be PUT/GET/DELETE. Numbers are almost similar for all the requests as it depends on the lock and the communication channel which remains same (tcp sockets).

# 1. Number of requests per second for 1 client.

Following is the summary of time for 1 client with locking implemented on the hash table and 102500 put requests.

Start 0 at 13:56:56 1443861485 145198000

Finished 0 at 13:56:56 1443861486 901570000

# 2. Number of requests per second for 2 clients running simultaneously

Time taken for 102500 entries by 2 clients: Total of 3 seconds for all the operations to finish.

Start 0 at 13:56:56 1443861279 920946000

Finished 0 at 13:56:56 1443861281 789308000

Start 1 at 13:56:56 1443861281 800923000

Finished 1 at 13:56:56 1443861283 319614000

# 3. Number of requests per second for 4 clients running simultaneously

Time taken for 102500 entries by 4 clients: Total of 9 seconds for all the operations to finish.

Start 0 at 13:56:56 1443861389 829096000

Finished 0 at 13:56:56 1443861392 544871000

Start 1 at 13:56:56 1443861392 554565000

Finished 1 at 13:56:56 1443861394 462992000

Start 2 at 13:56:56 1443861394 472639000

Finished 2 at 13:56:56 1443861396 566941000

Start 3 at 13:56:56 1443861396 573411000

Finished 3 at 13:56:56 1443861398 87177000

# 4. Number of requests per second for 8 clients running simultaneously

Start 0 at 13:56:56 1443860819 290853000

Finished 0 at 13:56:56 1443860821 287035000

Start 0 at 13:56:56 1443860884 688073000

Finished 0 at 13:56:56 1443860887 836607000

Start 1 at 13:56:56 1443860887 842832000

Finished 1 at 13:56:56 1443860892 920766000

Start 2 at 13:56:56 1443860892 930483000

Finished 2 at 13:56:56 1443860895 601697000

Start 3 at 13:56:56 1443860895 612122000

Finished 3 at 13:56:56 1443860897 551393000

Start 4 at 13:56:56 1443860897 561904000

Finished 4 at 13:56:56 1443860899 648004000

Start 5 at 13:56:56 1443860899 658234000

Finished 5 at 13:56:56 1443860901 546431000

Start 6 at 13:56:56 1443860901 553077000

Finished 6 at 13:56:56 1443860903 603150000

Start 7 at 13:56:56 1443860903 609764000

Finished 7 at 13:56:56 1443860905 610203000

Time taken for 102500 entries by 8 clients simultaneously:  Total of 86 seconds for all the operations to finish.

# 4. Number of requests per second for 8 clients running simultaneously without locks

Start 0 at 13:48:53 1443860363 340897000

Finished 0 at 13:48:53 1443860365 65043000

Start 1 at 13:48:53 1443860365 75379000

Finished 1 at 13:48:53 1443860368 532198000

Start 2 at 13:48:53 1443860368 541253000

Finished 2 at 13:48:53 1443860371 692213000

Start 3 at 13:48:53 1443860371 702282000

Finished 3 at 13:48:53 1443860376 494326000

Start 4 at 13:48:53 1443860376 504501000

Finished 4 at 13:48:53 1443860378 831870000

Start 5 at 13:48:53 1443860378 841516000

Finished 5 at 13:48:53 1443860383 798075000

Start 6 at 13:48:53 1443860383 807726000

Finished 6 at 13:48:53 1443860387 881619000

Start 7 at 13:48:53 1443860387 888361000

Finished 7 at 13:48:53 1443860390 468328000

Time taken for 102500 entries by 8 clients simultaneously:  Total of 27 seconds for all the operations to finish.