

Provide measurements of server-side (only) performance with the cache + on-disk store, and with just the on-disk store. Describe the performance just using the on-disk store, and adding the in-memory cache in front of it.

With the performance test results for these two settings, we can see that the server with cache + on-disk store performs better than the one with only on-disk store in all aspects (max, min, median, mean request time). This makes sense as we learned in class that Cache memory provides faster data storage and access than main memory or the hard disk.

Test Setting

Session number : 10

Request per session: 1000

Test Results (with the cache + on-disk store):

```
----- Server Statistic Report (in milliseconds)-----  
Total number of GET : 7979  
Total number of POST : 975  
Total number of DELETE : 1046  
Total request time: 2.9925e+06  
Maximum request time: 694.44  
Minimum request time: 0.252  
Median request time: 295.183  
Mean request time: 299.25
```

Test Results (with just the on-disk store):

```
----- Server Statistic Report (in milliseconds)-----  
Total number of GET : 7979  
Total number of POST : 975  
Total number of DELETE : 1046  
Total request time: 3.06591e+06  
Maximum request time: 708.501  
Minimum request time: 0.265  
Median request time: 301.822  
Mean request time: 306.591
```