

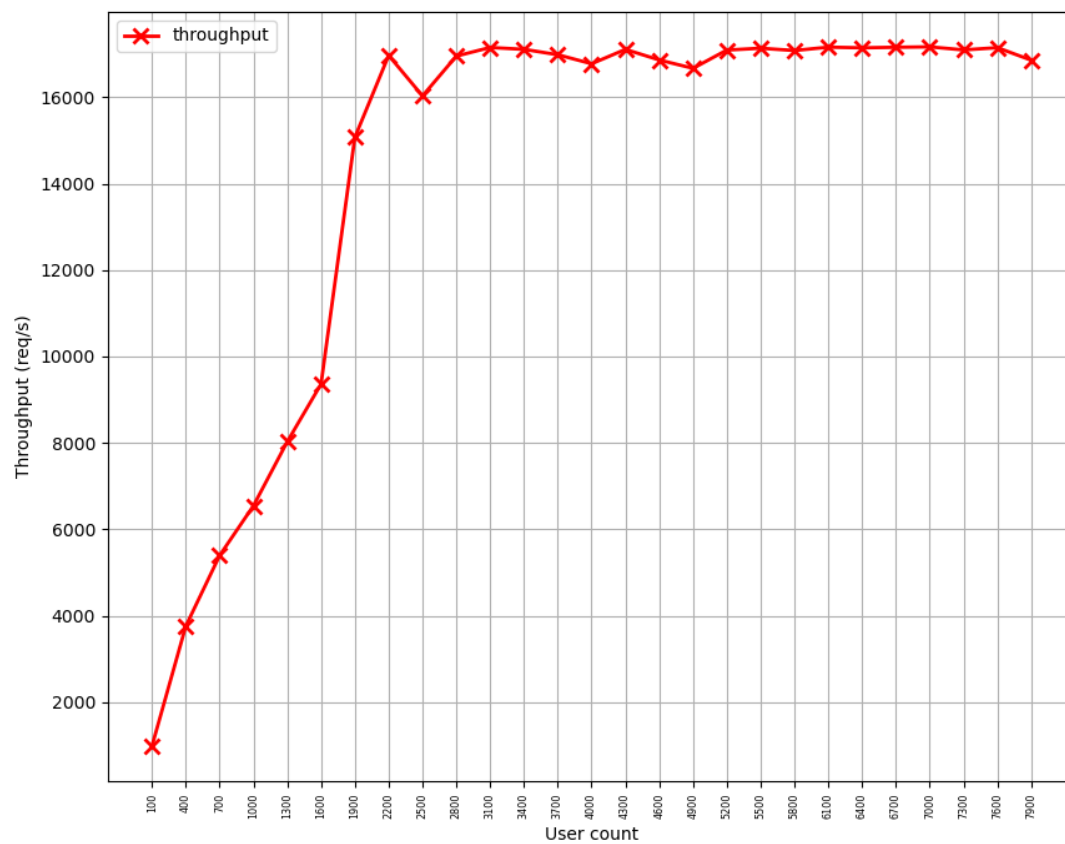
Load testing

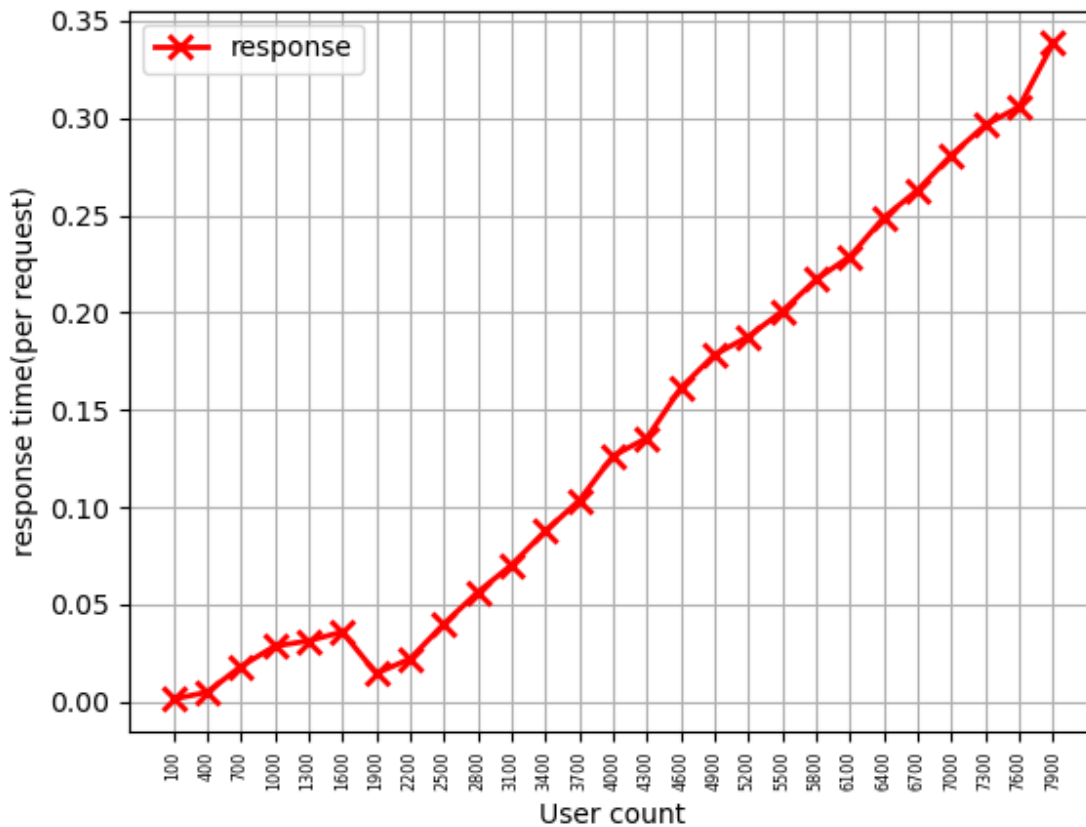
System Configuration

Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 39 bits physical, 48 bits virtual
Byte Order: Little Endian
CPU(s): 4
On-line CPU(s) list: 0-3
Vendor ID: GenuineIntel
Model name: Intel(R) Core(TM) i7-7500U CPU @ 2.70GHz
CPU family: 6
Model: 142
Thread(s) per core: 2
Core(s) per socket: 2
Socket(s): 1
Stepping: 9
CPU max MHz: 3500.0000
CPU min MHz: 400.0000
BogoMIPS: 5799.77

Input for testing

Initial users - 100
Final users - 7900
Increment steps for each iteration - 300
Think time - 0.1 sec
Test duration - 30 sec





Explanation

As explained by Mythili ma'am in class the throughput is getting saturated after a limit of user count increment and response time keeps increasing directly proportional to the user count.

I have identified that the cpu utilization is the bottleneck of this code. Utilization reaches 97-98% for the server execution for the given test inputs.