**The result of using Apache Benchmarking Tools on CSC326-Group5’s server running on AWS T1.Micro:**

To decide the maximum number of connections before connections drop, send requests with different concurrency levels and get the maximum concurrency level that successfully transmits all packets.

*ab -n 1000 -c 250 http://ec2-54-173-111-57.compute-1.amazonaws.com/?keywords=ece*

Result:

Total of 899 requests completed

Fail

*ab -n 1000 –c 100 http://ec2-54-173-111-57.compute-1.amazonaws.com/?keywords=ece*

Result:

Total of 972 requests completed

Fail

*ab -n 1000 -c 50 http://ec2-54-173-111-57.compute-1.amazonaws.com/?keywords=ece*

Result:

Total of 987 requests completed

Fail, but closer

*ab -n 1000 -c 30 http://ec2-54-173-111-57.compute-1.amazonaws.com/?keywords=ece*

Result:

Finished 1000 requests

Success

* **Therefore, the maximum number of connection is 30, same as the last lab**

A total of 1000 requests were sent, with a concurrency level 30 (30 connections)

*ab -n 1000 -c 30 -r -S* [*http://ec2-54-173-111-57.compute-1.amazonaws.com/?keywords=ece*](http://ec2-54-173-111-57.compute-1.amazonaws.com/?keywords=ece)

* **According to the result below, the average PRS is 163.55 requests, more than last lab, which makes sense since it extracts data from SQL database**
* **Average response time: 100ms > lab 2**
* **99 percentile response time: 2647ms ~ last lab, which means worst case do not depend on website service, probably network delay**
* **Utilization of CPU: gotten from stats:**

Maximum Utilization of CPU:74%

Memory: Used 113M, Buffer 126M, Cache 202M, Free 148M >> lab2, makes sense

Disk IO: Read 0, Write 2980K

Network: Receive 103K, send 1240K ~ lab2

**Appendix:**

**AB Benchmarking and DSTAT info:**

