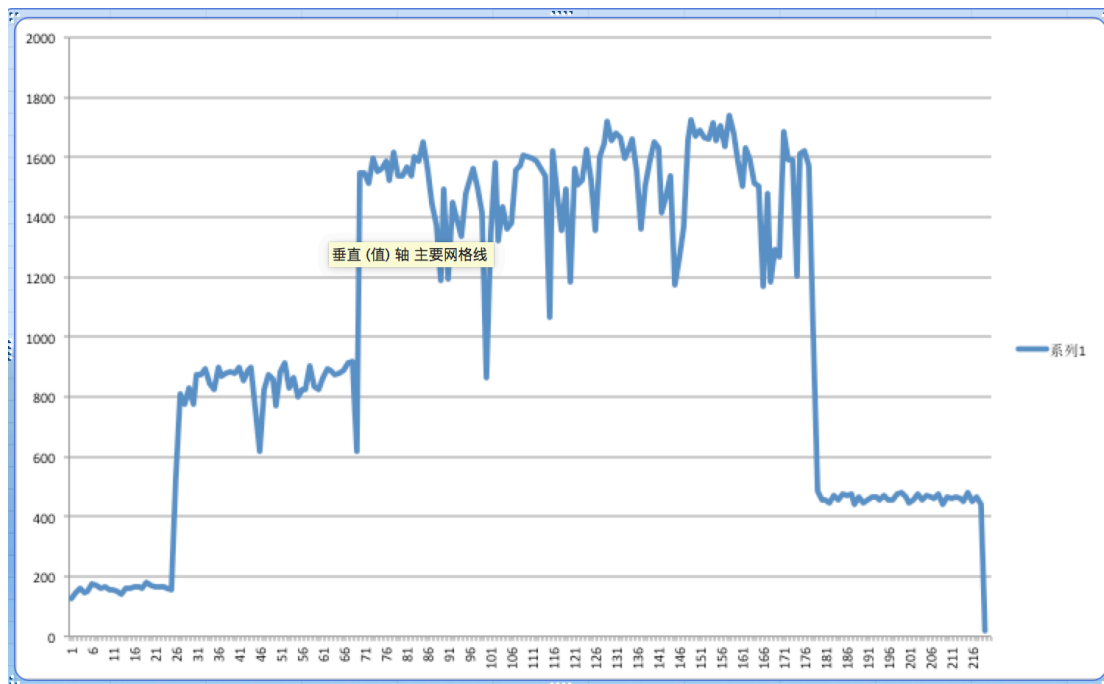


# Report

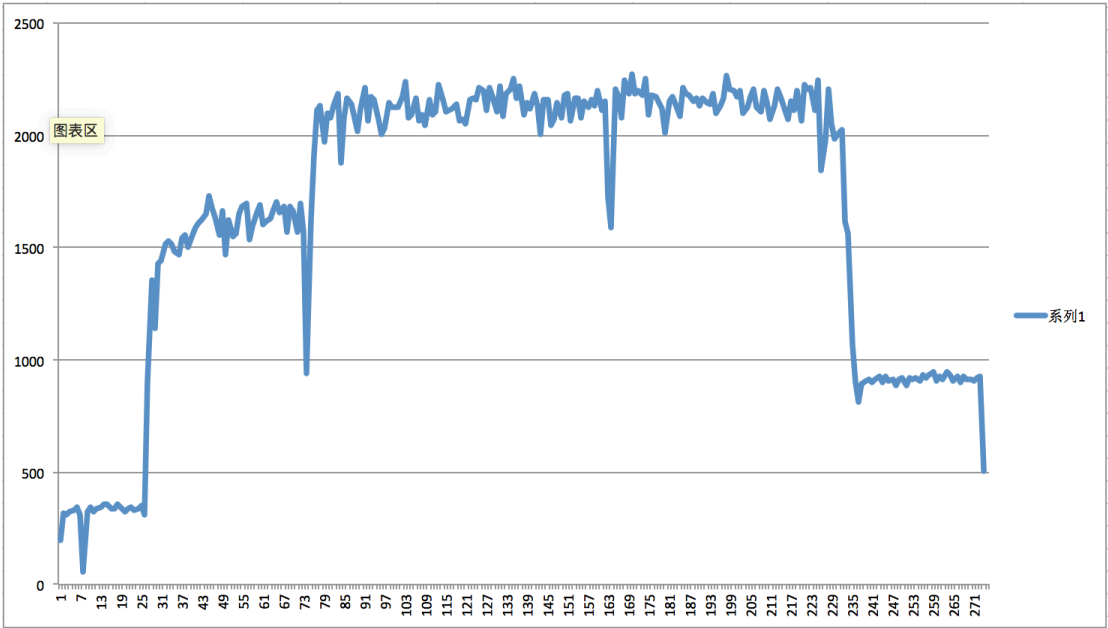
32 threads:

```
MyClient Starting ..... Time: 02:03:40
Warmup phase: All threads running
Warmup phase complete: Time 26.0 seconds
Loading phase: All threads running
Loading phase complete: Time 43.0 seconds
Peak phase: All threads running
Peak phase complete: Time 109.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 41.0 seconds
Wall Time 219.0 seconds
Overall throughput across all phases:1098.1
P95: 49
P99: 76
Total requests: 240475
Successful requests:240475
CSV file was created successfully !!!
```



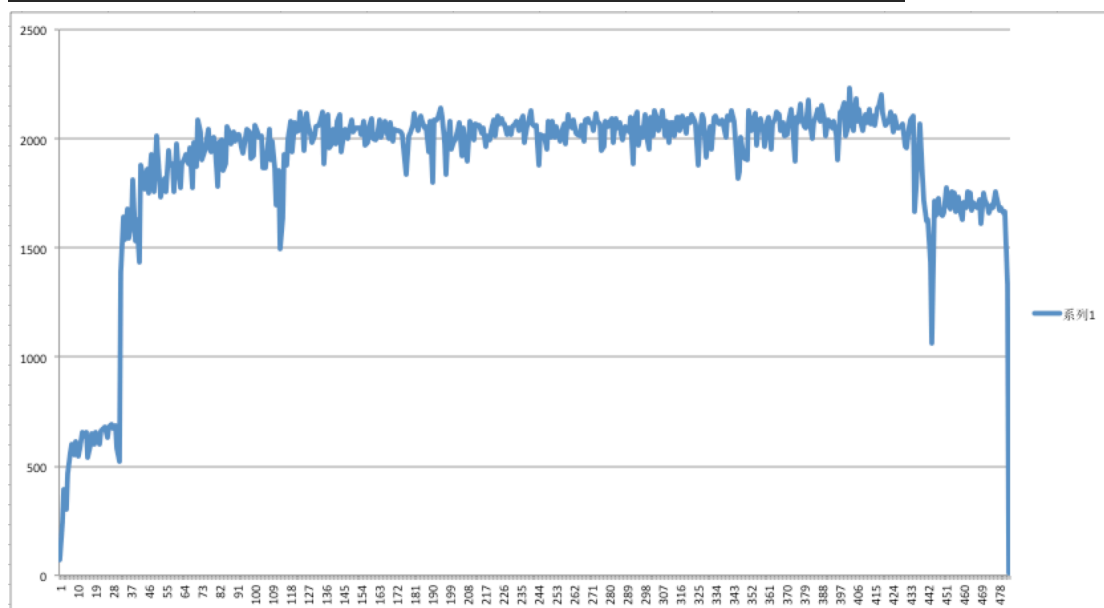
64 threads:

```
MyClient Starting ..... Time: 01:39:15
Warmup phase: All threads running
Warmup phase complete: Time 27.0 seconds
Loading phase: All threads running
Loading phase complete: Time 47.0 seconds
Peak phase: All threads running
Peak phase complete: Time 159.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 42.0 seconds
Wall Time 275.0 seconds
Overall throughput across all phases:1748.9
P95: 68
P99: 133
Total requests: 480957
Successful requests:480957
CSV file was created successfully !!!
```



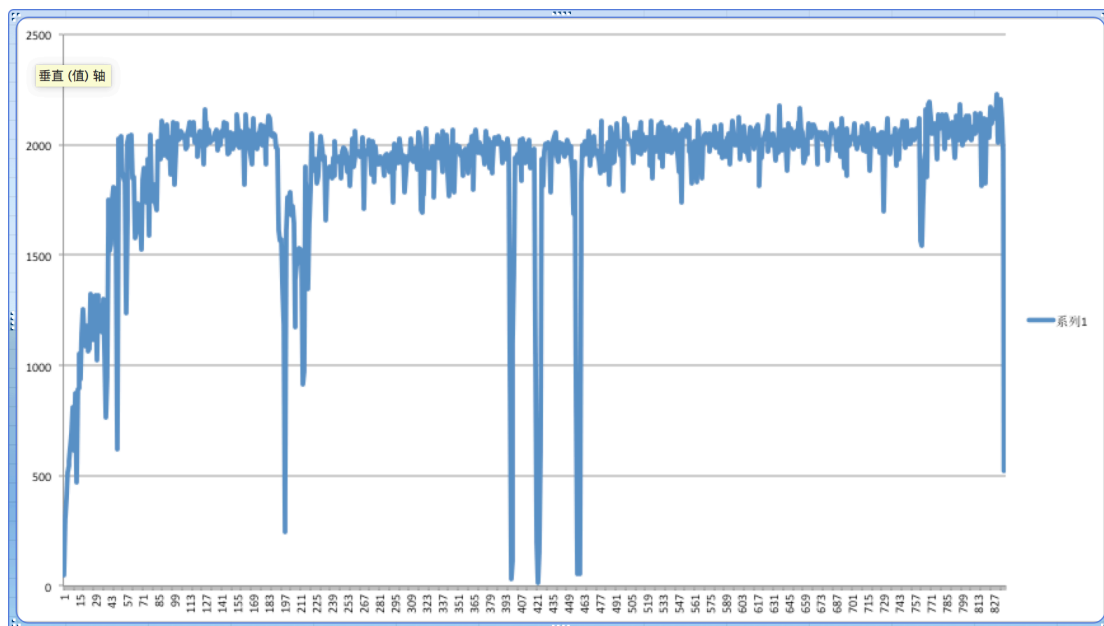
128 threads:

```
MyClient Starting ..... Time: 01:11:49
Warmup phase: All threads running
Warmup phase complete: Time 31.0 seconds
Loading phase: All threads running
Loading phase complete: Time 81.0 seconds
Peak phase: All threads running
Peak phase complete: Time 323.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 48.0 seconds
Wall Time 483.0 seconds
Overall throughput across all phases:1991.4
P95: 151
P99: 248
Total requests: 961835
Successful requests:961835
CSV file was created successfully !!!
```



## 256 threads:

```
MyClient Starting ..... Time: 21:05:31
Warmup phase: All threads running
Warmup phase complete: Time 38.0 seconds
Loading phase: All threads running
Loading phase complete: Time 154.0 seconds
Peak phase: All threads running
Peak phase complete: Time 571.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 74.0 seconds
Wall Time 837.0 seconds
Overall throughput across all phases:2033.6
P95: 253
P99: 394
Total requests: 1702171
Successful requests:1702171
CSV file was created successfully !!!
```

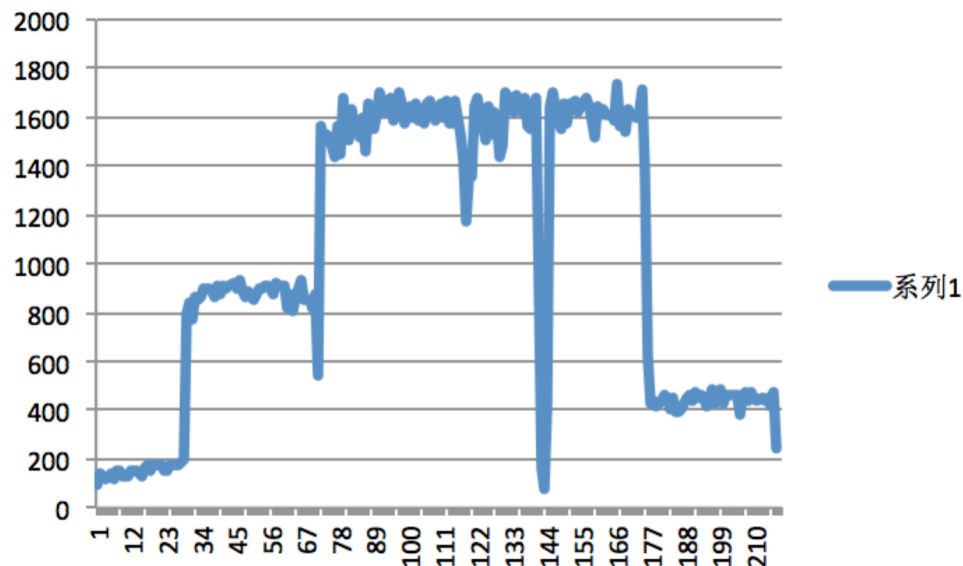


## Using Load Balancer: 4 instances in N California

32Threads:

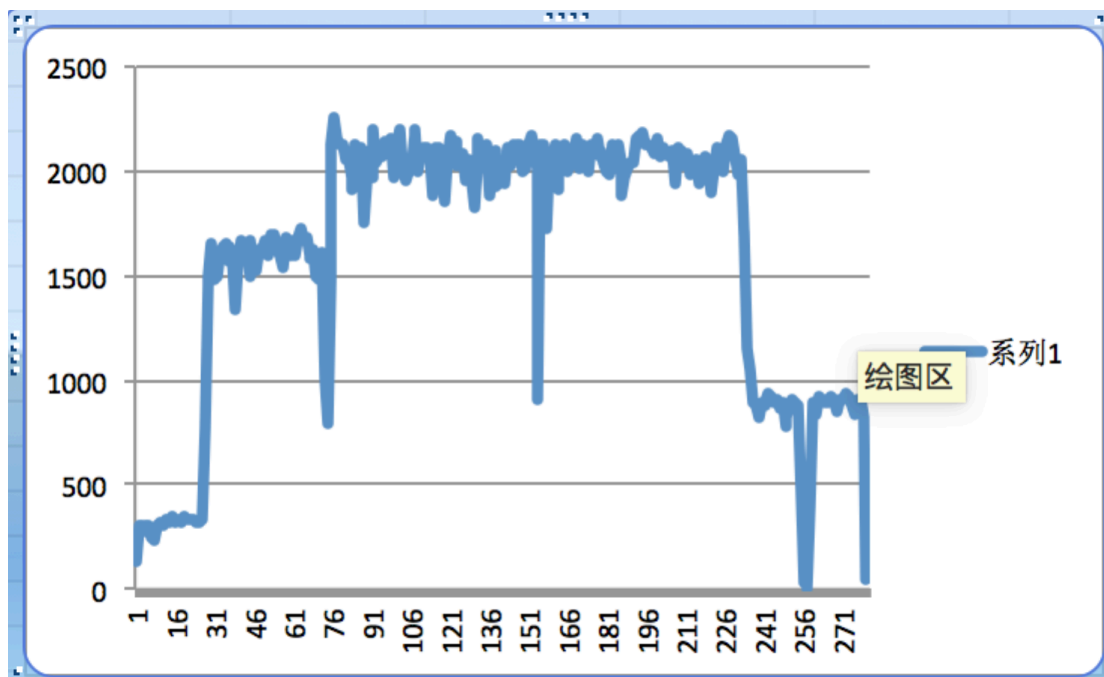
```
MyClient Starting ..... Time: 12:11:59
Warmup phase: All threads running
Warmup phase complete: Time 29.0 seconds
Loading phase: All threads running
Loading phase complete: Time 43.0 seconds
Peak phase: All threads running
Peak phase complete: Time 105.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 42.0 seconds
Wall Time 219.0 seconds
Overall throughput across all phases:1098.1
P95: 47
P99: 62
Total requests: 240486
Successful requests:240486
CSV file was created successfully !!!

Process finished with exit code 0
```



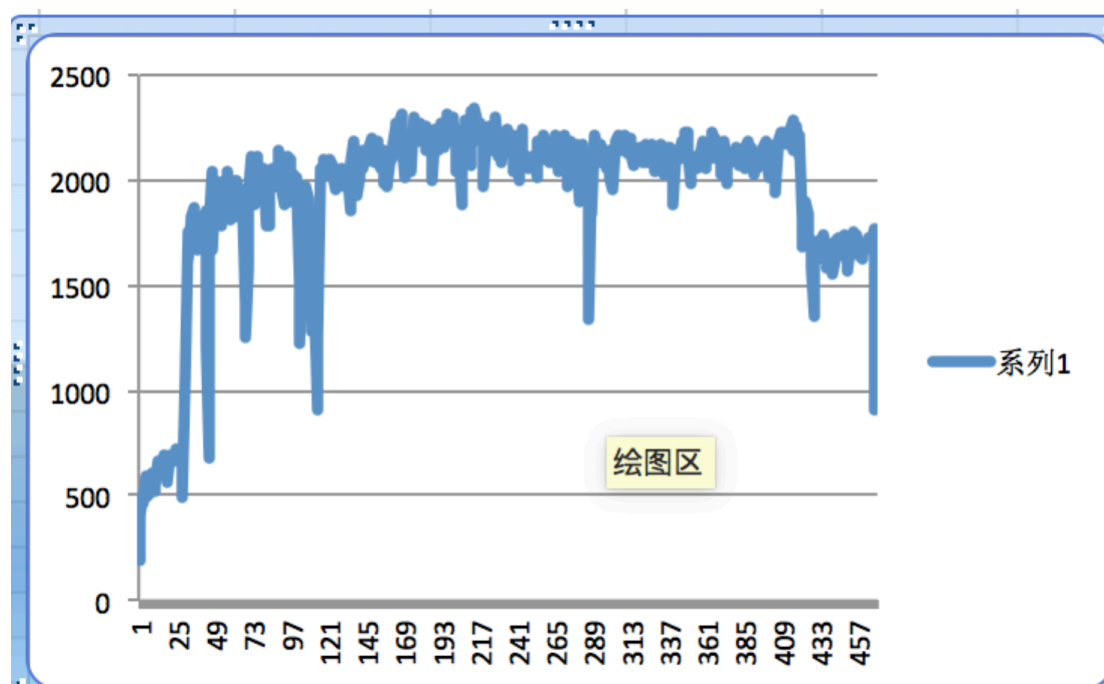
64 threads:

```
MyClient Starting ..... Time: 12:20:08
Warmup phase: All threads running
Warmup phase complete: Time 27.0 seconds
Loading phase: All threads running
Loading phase complete: Time 46.0 seconds
Peak phase: All threads running
Peak phase complete: Time 161.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 46.0 seconds
Wall Time 280.0 seconds
Overall throughput across all phases:1717.5
P95: 69
P99: 139
Total requests: 480891
Successful requests:480891
CSV file was created successfully !!!
```



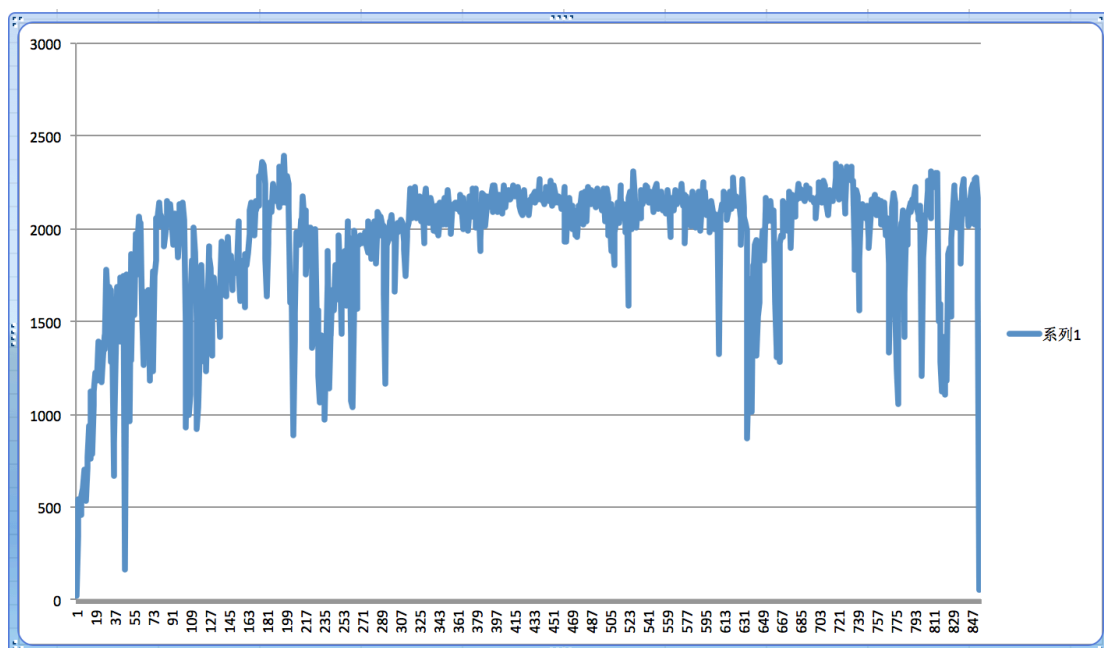
128 threads:

```
MyClient Starting ..... Time: 12:26:37
Warmup phase: All threads running
Warmup phase complete: Time 29.0 seconds
Loading phase: All threads running
Loading phase complete: Time 82.0 seconds
Peak phase: All threads running
Peak phase complete: Time 310.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 47.0 seconds
Wall Time 468.0 seconds
Overall throughput across all phases:2055.2
P95: 143
P99: 233
Total requests: 961871
Successful requests:961871
CSV file was created successfully !!!
```



256 threads:

```
MyClient Starting ..... Time: 14:19:22
Warmup phase: All threads running
Warmup phase complete: Time 36.0 seconds
Loading phase: All threads running
Loading phase complete: Time 167.0 seconds
Peak phase: All threads running
Peak phase complete: Time 567.0 seconds
CoolDown phase: All threads running
CoolDown phase complete: Time 86.0 seconds
Wall Time 856.0 seconds
Overall throughput across all phases:2046.2
P95: 278
P99: 443
Total requests: 1751607
Successful requests:1751607
CSV file was created successfully !!!
```





#### Statement and Comparison:

Launched 4 instance in N California and run them at the same time to get connection with my local client. The number of connections meanwhile grows from 60-70 to almost 300 by using the load balancer. Wall time makes no much difference, I guess because I set both database and ec2 instance in California, it will cause propagation delay on wall time. In theory, by using loading balancer, it should've saved a lot of time on sending and receiving requests because of the scalability of using the multiple servers.