Project 2 Configuration Suggestions

CSCE 412- Project 2

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10/12/22

Configuration

My Load Balancer loads the user input variables into the loadbalancer object and then initializes the webserver container and requestqueue. The requestqueue is load with 2 times the number of servers given by the user. Then the requests in the request queue are created with a range of 5 to 1005. This is to ensure that the lengths of the requests ensure that the servers remain occupied enough to give the balancer meaning. Within the main design loop, it randomly generates a number and checks if it's equal to 4 (arbitrary choice), if true then make 1 to 5 new requests and add it to the queue.

Suggestions

With Appendix A being the default of 10 servers and default 10,000 clock cycles, and we can see that 10 is too many servers. As after 1000 cycles, only three servers are actively serving requests. As the starting queue had 20 requests and grew to 30 at the end. With the mentioned ranges of time mentioned in the configuration section. So we can see that these leaves most servers unused and the requests being dealt with the same servers over and over again.

With Appendix B being the default of 10 servers and 100000 clock cycles, and we can see that 10 is too many servers for this runtime as after 1000 cycles only four servers are actively serving requests frequently. As the starting queue had 20 requests and grew to 118 with the mentioned ranges of time mentioned in the configuration section. So, we can see that these

leaves most servers unused, and the requests being dealt with the same servers over and over again.

With Appendix C using the set-up of 100 servers and 10,000 cycles show that using a lot of servers can rapidly deal with requests but leave many of the servers underutilized. As the starting queue had 200 requests and grew to 211 with the mentioned ranges of time mentioned in the configuration section. And by the 2000th clock cycle, only five servers are actively completing tasks.

With Appendix D using 100 servers and 10,000 clock cycles with larger ending queue size. With the initial queue size of 20 and an ending requests amount dealt with being 138. This configuration was achieved by increasing the number of random requests generated during run time from 1 request if a random number equals 4, to a random amount of 1 request to 30 requests. And with this set-up showed larger server utilization across all the servers than the other examples. Since we do end before our 10,000 limit but see all servers working on requests until the end.

Finally, with Appendix E using 100 servers and 10,000 clock cycles with larger ending queue and longer requests. By longer, it's now a range of 5 to 10,005 And we can see that we have exceeded our 10,000 cycles by 4500 cycles to properly deal with all the requests (that being 345 final number of requests).

Conclusion

Thus, after seeing these configurations, I would suggest that an optimal number of servers is under 100 servers and more than 10 servers, perhaps 50 or 30 servers would be able to handle most testing scenarios. And having smaller task times for each request allow for the load

balancer to end earlier. Which would allow it to handle later requests with less resources. For total number of clock cycles, I think this should be 10,000 cycles as less cycles means the servers won't be able to handle all of them (as these examples in the appendices are finishing close to or past the clock cycle limit) but more than 100,000 means that some servers end up being useless.

Appendix A: 10 Servers 10,000 Clock cycles

--------Load Balancer Sim--------

Enter number of servers: 10

Enter runtime of Sim: 10000

Begin (y/n)? : y

Requests have a range of 5 to 200 clock cycles

At 128 Server d processed request from 154.201.159.51 to 183.13.50.102

At 177 Server c processed request from 231.232.27.248 to 46.90.118.141

At 332 Server h processed request from 161.62.233.112 to 103.252.225.65

At 388 Server a processed request from 81.115.105.198 to 41.236.74.255

At 398 Server e processed request from 37.90.163.88 to 88.23.5.93

At 426 Server b processed request from 251.242.171.186 to 194.124.70.227

At 542 Server f processed request from 178.171.212.94 to 180.155.198.205

At 587 Server i processed request from 234.151.126.1 to 143.150.107.220

At 654 Server h processed request from 117.148.124.60 to 137.97.190.216

At 721 Server c processed request from 58.170.250.251 to 230.209.41.251

At 813 Server j processed request from 176.236.42.92 to 175.50.251.59

At 884 Server e processed request from 247.239.5.179 to 58.161.233.0

At 961 Server g processed request from 116.130.14.17 to 220.61.33.65

At 1050 Server f processed request from 28.168.30.35 to 20.197.100.123

At 1065 Server d processed request from 219.24.236.84 to 254.26.2.92

At 1082 Server a processed request from 153.168.187.92 to 235.177.149.15

At 1315 Server i processed request from 75.94.197.90 to 112.59.99.121

At 1396 Server b processed request from 208.203.11.202 to 189.100.71.72

At 1423 Server h processed request from 9.158.17.36 to 172.212.170.220

At 1640 Server c processed request from 59.175.16.27 to 80.227.205.51

At 3910 Server a processed request from 126.127.112.12 to 87.240.17.217

At 4480 Server a processed request from 199.100.185.64 to 110.183.228.81

At 4777 Server a processed request from 133.1.53.212 to 171.138.254.54

At 5424 Server b processed request from 73.125.123.179 to 16.31.201.121

At 5656 Server c processed request from 231.26.33.69 to 64.60.171.115

At 5765 Server a processed request from 213.119.134.242 to 128.199.38.251

At 7571 Server b processed request from 52.88.175.207 to 131.23.152.203

At 7598 Server a processed request from 155.87.3.16 to 74.176.85.83

At 7782 Server c processed request from 191.238.16.173 to 234.69.12.175

At 9477 Server a processed request from 0.123.185.222 to 224.249.219.13

Initial Queue size: 20

Final number of requests handled: 30

--------Have a nice day--------

Appendix B: 10 Servers, 100000 Clock Cycles

--------Load Balancer Sim--------

Enter number of servers: 10

Enter runtime of Sim: 100000

Begin (y/n)? : y

Requests have a range of 5 to 2000 clock cycles

At 128 Server d processed request from 154.201.159.51 to 183.13.50.102

At 177 Server c processed request from 231.232.27.248 to 46.90.118.141

At 332 Server h processed request from 161.62.233.112 to 103.252.225.65

At 388 Server a processed request from 81.115.105.198 to 41.236.74.255

At 398 Server e processed request from 37.90.163.88 to 88.23.5.93

At 426 Server b processed request from 251.242.171.186 to 194.124.70.227

At 542 Server f processed request from 178.171.212.94 to 180.155.198.205

At 587 Server i processed request from 234.151.126.1 to 143.150.107.220

At 654 Server h processed request from 117.148.124.60 to 137.97.190.216

At 721 Server c processed request from 58.170.250.251 to 230.209.41.251

At 813 Server j processed request from 176.236.42.92 to 175.50.251.59

At 884 Server e processed request from 247.239.5.179 to 58.161.233.0

At 961 Server g processed request from 116.130.14.17 to 220.61.33.65

At 1050 Server f processed request from 28.168.30.35 to 20.197.100.123

At 1065 Server d processed request from 219.24.236.84 to 254.26.2.92

At 1082 Server a processed request from 153.168.187.92 to 235.177.149.15

At 1315 Server i processed request from 75.94.197.90 to 112.59.99.121

At 1396 Server b processed request from 208.203.11.202 to 189.100.71.72

At 1423 Server h processed request from 9.158.17.36 to 172.212.170.220

At 1640 Server c processed request from 59.175.16.27 to 80.227.205.51

At 4480 Server b processed request from 199.100.185.64 to 110.183.228.81

At 4777 Server b processed request from 133.1.53.212 to 171.138.254.54

At 4910 Server a processed request from 126.127.112.12 to 87.240.17.217

At 5424 Server c processed request from 73.125.123.179 to 16.31.201.121

At 5656 Server d processed request from 231.26.33.69 to 64.60.171.115

At 5765 Server a processed request from 213.119.134.242 to 128.199.38.251

At 7571 Server b processed request from 52.88.175.207 to 131.23.152.203

At 7598 Server a processed request from 155.87.3.16 to 74.176.85.83

At 7782 Server c processed request from 191.238.16.173 to 234.69.12.175

At 9477 Server a processed request from 0.123.185.222 to 224.249.219.13

At 13062 Server a processed request from 170.232.180.70 to 189.193.8.109

At 14735 Server a processed request from 139.185.6.157 to 57.29.4.244

At 15892 Server b processed request from 3.154.211.148 to 231.15.74.95

At 16058 Server a processed request from 210.7.59.253 to 181.59.120.172

At 18155 Server a processed request from 238.74.201.104 to 117.220.15.183

At 18241 Server b processed request from 177.166.66.53 to 47.160.154.105

At 26669 Server a processed request from 249.95.192.11 to 99.124.10.28

At 26744 Server b processed request from 201.219.94.200 to 222.201.107.66

At 27156 Server d processed request from 90.131.179.26 to 127.66.176.23

At 28401 Server c processed request from 141.30.102.53 to 45.15.34.55

At 29010 Server a processed request from 205.203.160.5 to 5.168.238.226

At 31231 Server c processed request from 12.128.139.195 to 41.39.48.168

At 31362 Server a processed request from 163.179.217.44 to 241.61.132.7

At 31993 Server b processed request from 110.184.55.180 to 79.1.180.233

At 33065 Server a processed request from 64.211.185.16 to 229.0.68.20

At 34597 Server b processed request from 67.201.90.132 to 151.11.79.15

At 35335 Server a processed request from 243.175.126.134 to 173.65.240.54

At 39663 Server b processed request from 122.195.40.107 to 104.9.25.32

At 40540 Server a processed request from 237.21.165.38 to 100.80.128.66

At 41569 Server b processed request from 179.159.20.24 to 123.95.120.222

At 43741 Server a processed request from 110.228.4.19 to 138.109.94.197

At 45370 Server b processed request from 213.135.210.32 to 241.226.95.127

At 46624 Server b processed request from 204.104.87.43 to 87.251.179.12

At 46673 Server c processed request from 213.85.30.29 to 28.101.122.48

At 46749 Server d processed request from 109.82.22.186 to 235.61.133.245

At 46755 Server a processed request from 109.208.218.11 to 113.112.23.61

At 48756 Server b processed request from 231.197.114.247 to 61.74.84.212

At 48865 Server a processed request from 16.236.69.233 to 151.79.73.201

At 49196 Server c processed request from 218.105.63.203 to 160.88.159.104

At 49743 Server b processed request from 35.224.83.33 to 61.219.32.185

At 50355 Server b processed request from 138.189.63.173 to 229.111.39.29

At 50654 Server a processed request from 78.25.126.152 to 178.11.66.193

At 51902 Server a processed request from 138.104.26.88 to 84.163.231.64

At 52877 Server a processed request from 161.81.78.55 to 147.160.46.120

At 53620 Server b processed request from 252.241.251.227 to 190.181.197.24

At 53791 Server a processed request from 166.98.19.232 to 6.207.72.219

At 53989 Server a processed request from 236.68.80.46 to 149.36.62.227

At 55627 Server b processed request from 160.238.20.167 to 75.37.243.100

At 56024 Server a processed request from 137.20.235.127 to 179.112.112.49

At 57025 Server b processed request from 188.197.112.6 to 226.101.92.201

At 57334 Server c processed request from 61.11.149.96 to 240.100.125.87

At 58932 Server b processed request from 76.84.20.185 to 9.182.133.71

At 59230 Server a processed request from 56.219.110.164 to 216.244.52.5

At 60181 Server a processed request from 81.16.208.77 to 105.55.143.175

At 60792 Server a processed request from 26.12.168.222 to 59.143.0.13

At 61462 Server b processed request from 210.225.113.95 to 148.72.215.240

At 62559 Server a processed request from 236.233.41.125 to 191.241.103.116

At 64281 Server a processed request from 39.129.107.39 to 44.114.167.2

At 65006 Server a processed request from 71.231.182.21 to 200.204.87.84

At 66683 Server b processed request from 109.192.151.162 to 181.15.190.6

At 67002 Server a processed request from 65.182.229.102 to 222.9.191.85

At 67434 Server a processed request from 8.101.168.111 to 95.166.67.115

At 67812 Server c processed request from 158.244.154.76 to 160.88.227.56

At 70047 Server c processed request from 199.185.67.28 to 245.78.136.47

At 70117 Server b processed request from 147.48.237.233 to 74.196.54.174

At 70402 Server b processed request from 72.235.117.84 to 136.88.46.178

At 70554 Server a processed request from 35.26.66.41 to 189.133.27.188

At 71308 Server a processed request from 248.12.153.190 to 255.38.156.77

At 72957 Server a processed request from 66.116.103.9 to 75.22.71.191

At 73594 Server b processed request from 110.160.231.246 to 22.159.205.61

At 74285 Server b processed request from 226.32.174.183 to 72.119.18.129

At 74913 Server b processed request from 129.84.215.196 to 3.30.253.186

At 75539 Server a processed request from 229.176.26.212 to 26.103.2.168

At 76215 Server b processed request from 112.121.112.0 to 125.27.244.104

At 77264 Server a processed request from 34.141.163.25 to 29.187.105.14

At 78030 Server a processed request from 15.78.97.228 to 130.235.192.61

At 78094 Server c processed request from 207.98.125.68 to 50.173.46.177

At 78478 Server b processed request from 190.25.175.138 to 10.154.228.15

At 79778 Server a processed request from 115.112.131.187 to 200.102.9.208

At 82541 Server a processed request from 95.183.166.152 to 11.64.221.134

At 83172 Server a processed request from 82.240.48.28 to 156.105.116.64

At 83838 Server b processed request from 156.224.251.182 to 225.194.252.253

At 83961 Server c processed request from 137.170.220.176 to 55.237.55.50

At 85014 Server c processed request from 94.226.172.20 to 36.224.243.196

At 85517 Server c processed request from 31.217.35.28 to 1.43.204.134

At 85525 Server d processed request from 165.173.117.92 to 30.193.0.160

At 85974 Server a processed request from 250.77.197.60 to 28.145.107.29

At 86172 Server b processed request from 109.135.26.20 to 98.228.220.91

At 88297 Server a processed request from 96.236.171.174 to 254.166.93.137

At 91702 Server a processed request from 202.64.186.222 to 244.75.13.148

At 92120 Server b processed request from 194.104.60.42 to 255.216.240.231

At 94005 Server a processed request from 13.212.171.251 to 173.120.223.136

At 96603 Server b processed request from 60.231.66.140 to 156.16.241.248

At 97494 Server a processed request from 44.88.110.32 to 22.52.167.169

At 97716 Server b processed request from 199.95.34.91 to 168.91.139.113

At 98015 Server c processed request from 201.47.208.183 to 138.91.206.237

At 99051 Server b processed request from 183.124.123.226 to 205.30.13.141

At 99090 Server a processed request from 174.213.249.54 to 79.138.58.146

Initial Queue size: 20

Final number of requests handled: 118

--------Have a nice day--------

Appendix C: 100 Servers and 10000 clock cycles

--------Load Balancer Sim--------

Enter number of servers: 100

Enter runtime of Sim: 10000

Begin (y/n)? : y

Requests have a range of 5 to 200 clock cycles

At 14 Server processed request from 195.134.186.32 to 236.241.5.62

At 28 Server processed request from 150.165.209.9 to 149.31.244.193

At 79 Server processed request from 101.113.205.129 to 73.171.62.166

At 79 Server processed request from 201.99.185.198 to 151.112.31.138

At 103 Server processed request from 140.124.249.189 to 164.91.199.106

At 119 Server processed request from 87.182.82.61 to 76.196.212.2

At 127 Server processed request from 49.77.167.10 to 160.3.91.181

At 127 Server processed request from 35.50.99.49 to 91.118.206.78

At 128 Server d processed request from 154.201.159.51 to 183.13.50.102

At 136 Server processed request from 6.229.66.9 to 205.175.51.196

At 160 Server processed request from 49.251.148.58 to 87.50.144.153

At 164 Server processed request from 17.115.158.22 to 96.4.219.8

At 177 Server c processed request from 231.232.27.248 to 46.90.118.141

At 186 Server processed request from 249.128.55.207 to 215.156.98.220

At 202 Server { processed request from 92.4.59.115 to 179.148.54.211

At 216 Server processed request from 59.76.36.102 to 172.168.30.121

At 221 Server processed request from 87.85.166.51 to 240.238.29.59

At 229 Server processed request from 194.80.219.181 to 90.9.93.253

At 239 Server processed request from 73.108.202.130 to 22.205.144.174

At 265 Server processed request from 163.69.205.217 to 255.1.198.145

At 274 Server processed request from 93.71.13.34 to 120.135.155.205

At 295 Server processed request from 135.59.225.205 to 118.138.116.96

At 302 Server processed request from 74.109.30.176 to 115.124.209.79

At 303 Server processed request from 81.126.76.126 to 132.72.179.37

At 317 Server processed request from 166.122.172.186 to 202.168.180.242

At 319 Server processed request from 19.124.97.135 to 252.105.158.98

At 322 Server m processed request from 117.148.124.60 to 137.97.190.216

At 326 Server processed request from 153.183.51.103 to 20.227.163.80

At 329 Server y processed request from 250.119.78.95 to 172.5.108.203

At 332 Server h processed request from 161.62.233.112 to 103.252.225.65

At 343 Server processed request from 251.163.226.165 to 84.71.19.183

At 344 Server processed request from 184.31.7.172 to 45.52.17.109

At 345 Server processed request from 216.2.57.69 to 157.248.10.229

At 348 Server | processed request from 158.228.240.226 to 73.21.50.79

At 372 Server processed request from 103.131.36.228 to 18.150.237.216

At 388 Server a processed request from 81.115.105.198 to 41.236.74.255

At 398 Server e processed request from 37.90.163.88 to 88.23.5.93

At 400 Server v processed request from 225.11.245.125 to 35.127.28.26

At 408 Server processed request from 58.47.105.180 to 22.39.175.255

At 409 Server processed request from 237.178.244.2 to 243.236.22.114

At 422 Server processed request from 122.204.211.34 to 97.239.99.40

At 426 Server b processed request from 251.242.171.186 to 194.124.70.227

At 427 Server processed request from 190.1.148.5 to 120.68.188.180

At 431 Server processed request from 105.142.105.141 to 8.209.47.221

At 432 Server processed request from 88.243.104.106 to 43.71.6.70

At 434 Server processed request from 212.137.79.239 to 193.53.99.182

At 437 Server u processed request from 187.92.21.71 to 186.25.34.111

At 440 Server processed request from 171.42.84.192 to 246.248.78.186

At 450 Server processed request from 7.178.251.108 to 11.236.244.4

At 462 Server processed request from 192.188.132.97 to 243.150.71.21

At 465 Server processed request from 192.124.241.102 to 252.34.187.124

At 470 Server ~ processed request from 10.154.72.84 to 24.14.213.188

At 471 Server processed request from 196.74.236.28 to 35.32.246.48

At 484 Server processed request from 210.237.25.106 to 121.76.153.211

At 486 Server o processed request from 247.239.5.179 to 58.161.233.0

At 490 Server processed request from 229.239.19.222 to 171.226.199.32

At 496 Server processed request from 13.191.103.155 to 78.126.140.233

At 501 Server processed request from 229.30.144.91 to 119.17.168.2

At 503 Server processed request from 168.217.152.100 to 112.101.117.135

At 508 Server q processed request from 28.168.30.35 to 20.197.100.123

At 517 Server y processed request from 13.96.79.217 to 205.221.198.237

At 524 Server processed request from 83.30.227.209 to 225.47.25.135

At 534 Server processed request from 42.55.194.178 to 97.207.8.203

At 536 Server c processed request from 117.44.138.113 to 238.106.188.164

At 542 Server f processed request from 178.171.212.94 to 180.155.198.205

At 544 Server l processed request from 58.170.250.251 to 230.209.41.251

At 546 Server processed request from 245.55.242.115 to 58.54.175.187

At 561 Server processed request from 11.97.218.102 to 188.98.175.99

At 568 Server processed request from 13.167.188.209 to 171.191.155.190

At 569 Server processed request from 73.244.144.26 to 72.75.21.254

At 573 Server | processed request from 207.13.90.49 to 19.61.222.182

At 587 Server i processed request from 234.151.126.1 to 143.150.107.220

At 590 Server processed request from 134.39.70.69 to 141.169.63.229

At 594 Server c processed request from 139.70.11.112 to 88.163.205.39

At 595 Server z processed request from 26.170.43.33 to 112.190.162.85

At 605 Server processed request from 243.91.172.68 to 45.215.76.142

At 618 Server processed request from 83.94.226.233 to 178.210.170.96

At 618 Server processed request from 100.71.19.39 to 171.55.233.123

At 619 Server processed request from 214.1.152.213 to 246.214.242.229

At 631 Server m processed request from 130.91.29.228 to 208.0.103.107

At 637 Server processed request from 253.239.144.120 to 100.64.43.165

At 656 Server processed request from 202.204.57.58 to 121.232.92.148

At 658 Server processed request from 191.67.59.20 to 85.208.1.42

At 661 Server ~ processed request from 16.154.202.35 to 239.46.125.155

At 666 Server } processed request from 8.169.78.130 to 138.178.212.112

At 666 Server processed request from 101.125.12.77 to 2.243.230.153

At 672 Server processed request from 94.247.52.217 to 168.16.242.160

At 673 Server processed request from 21.2.57.127 to 140.43.234.103

At 682 Server processed request from 136.129.77.164 to 238.26.83.28

At 684 Server processed request from 227.105.71.227 to 185.152.182.17

At 687 Server processed request from 129.255.100.126 to 254.253.97.235

At 689 Server i processed request from 49.37.89.168 to 122.76.154.199

At 690 Server processed request from 51.108.209.85 to 247.188.194.221

At 691 Server processed request from 23.236.128.149 to 140.241.133.228

At 693 Server processed request from 16.57.2.98 to 253.86.69.114

At 694 Server n processed request from 153.168.187.92 to 235.177.149.15

At 715 Server processed request from 26.137.86.12 to 1.27.33.43

At 717 Server processed request from 212.48.102.35 to 253.238.187.226

At 722 Server processed request from 142.22.197.62 to 175.45.46.33

At 727 Server processed request from 253.86.224.97 to 113.200.67.22

At 728 Server r processed request from 75.94.197.90 to 112.59.99.121

At 728 Server processed request from 83.142.154.197 to 13.140.144.253

At 734 Server f processed request from 20.22.227.151 to 146.40.248.226

At 735 Server v processed request from 171.53.251.22 to 242.163.169.106

At 746 Server processed request from 27.26.139.124 to 68.223.249.90

At 749 Server processed request from 142.159.23.91 to 97.10.152.212

At 766 Server processed request from 17.44.152.198 to 238.214.131.247

At 769 Server s processed request from 9.158.17.36 to 172.212.170.220

At 771 Server processed request from 73.2.32.110 to 127.160.226.129

At 773 Server processed request from 54.121.216.55 to 191.150.200.178

At 774 Server d processed request from 168.34.24.159 to 162.253.200.75

At 779 Server a processed request from 126.65.120.201 to 191.1.222.213

At 789 Server processed request from 216.84.250.133 to 102.212.232.53

At 802 Server processed request from 89.87.78.137 to 172.173.81.211

At 811 Server processed request from 156.76.112.213 to 152.15.234.134

At 813 Server j processed request from 176.236.42.92 to 175.50.251.59

At 818 Server processed request from 33.77.182.113 to 46.113.40.107

At 821 Server processed request from 26.51.113.205 to 93.45.3.204

At 833 Server processed request from 93.110.209.92 to 98.96.50.183

At 844 Server processed request from 58.206.75.113 to 118.79.167.117

At 845 Server x processed request from 224.56.50.152 to 52.61.77.121

At 855 Server processed request from 35.230.105.73 to 105.218.26.208

At 861 Server processed request from 149.126.33.239 to 133.83.54.153

At 862 Server processed request from 110.94.128.195 to 76.218.40.3

At 865 Server processed request from 233.188.155.238 to 8.207.37.229

At 865 Server processed request from 90.220.250.164 to 112.73.108.115

At 866 Server processed request from 43.0.126.187 to 104.187.252.149

At 878 Server processed request from 176.19.226.255 to 185.174.82.77

At 878 Server processed request from 1.21.217.42 to 21.238.47.67

At 895 Server processed request from 128.98.63.138 to 124.222.68.41

At 897 Server processed request from 181.190.178.100 to 198.32.219.209

At 901 Server processed request from 42.104.161.116 to 29.143.131.40

At 903 Server processed request from 13.83.156.235 to 216.90.250.167

At 904 Server processed request from 173.45.127.132 to 222.71.118.212

At 912 Server o processed request from 14.154.26.172 to 77.168.100.61

At 913 Server processed request from 211.230.30.71 to 104.207.17.186

At 919 Server t processed request from 59.175.16.27 to 80.227.205.51

At 923 Server processed request from 168.181.77.202 to 225.94.7.138

At 926 Server processed request from 182.112.178.126 to 229.210.82.223

At 929 Server processed request from 137.235.8.173 to 56.180.77.149

At 933 Server w processed request from 27.164.248.41 to 78.202.181.19

At 937 Server k processed request from 219.24.236.84 to 254.26.2.92

At 939 Server processed request from 37.21.232.45 to 174.143.92.203

At 948 Server processed request from 139.253.216.13 to 164.161.194.22

At 951 Server processed request from 91.202.237.54 to 181.219.2.188

At 955 Server processed request from 235.210.13.14 to 58.108.31.178

At 959 Server ~ processed request from 180.14.214.157 to 95.242.179.211

At 961 Server g processed request from 116.130.14.17 to 220.61.33.65

At 965 Server processed request from 247.196.86.95 to 64.51.25.187

At 967 Server processed request from 43.239.123.38 to 150.17.13.195

At 968 Server processed request from 210.146.210.207 to 97.53.75.152

At 970 Server p processed request from 208.203.11.202 to 189.100.71.72

At 976 Server processed request from 181.151.200.149 to 210.48.128.18

At 982 Server processed request from 16.0.240.77 to 153.207.103.139

At 990 Server e processed request from 43.17.190.239 to 190.56.107.239

At 992 Server processed request from 154.86.34.0 to 254.209.24.212

At 997 Server m processed request from 245.107.29.31 to 216.16.125.90

At 997 Server { processed request from 245.100.27.135 to 231.28.171.97

At 997 Server processed request from 234.196.222.206 to 21.213.204.140

At 1004 Server processed request from 192.123.233.74 to 123.13.49.90

At 1027 Server processed request from 211.144.252.22 to 121.238.163.79

At 1035 Server l processed request from 50.255.64.122 to 203.121.18.103

At 1035 Server processed request from 57.117.151.84 to 155.5.174.209

At 1053 Server q processed request from 48.211.161.104 to 152.96.57.196

At 1060 Server processed request from 170.3.196.230 to 96.118.215.230

At 1084 Server processed request from 222.214.138.145 to 223.25.183.87

At 1118 Server processed request from 78.183.8.197 to 26.248.228.176

At 1126 Server processed request from 179.27.116.109 to 33.178.91.239

At 1132 Server processed request from 94.175.141.60 to 79.147.171.163

At 1134 Server h processed request from 153.21.106.48 to 209.244.50.78

At 1137 Server processed request from 163.43.98.141 to 49.170.29.159

At 1139 Server processed request from 234.131.156.92 to 102.255.237.205

At 1141 Server processed request from 126.27.18.61 to 38.205.236.154

At 1143 Server processed request from 173.252.43.156 to 105.35.172.159

At 1168 Server c processed request from 139.78.209.136 to 224.140.177.163

At 1168 Server processed request from 224.207.102.157 to 135.157.83.199

At 1180 Server processed request from 106.170.45.167 to 69.248.68.242

At 1206 Server processed request from 135.247.116.111 to 226.0.208.171

At 1220 Server processed request from 132.152.16.71 to 36.59.161.214

At 1223 Server processed request from 201.177.246.39 to 220.201.47.177

At 1235 Server processed request from 133.101.106.1 to 81.184.214.55

At 1254 Server processed request from 138.243.8.57 to 241.82.137.47

At 1257 Server processed request from 51.171.53.66 to 207.226.56.113

At 1263 Server processed request from 108.90.220.231 to 150.7.116.136

At 1284 Server b processed request from 146.7.242.61 to 90.201.250.101

At 1298 Server processed request from 42.27.19.82 to 164.219.118.244

At 1314 Server processed request from 94.196.160.35 to 76.117.167.56

At 1341 Server | processed request from 61.0.99.209 to 228.1.161.134

At 1363 Server u processed request from 202.118.176.116 to 37.117.171.242

At 1417 Server processed request from 145.19.207.91 to 33.159.233.108

At 1447 Server z processed request from 6.28.226.45 to 188.43.117.138

At 1461 Server y processed request from 49.24.135.27 to 219.139.244.110

At 1461 Server processed request from 107.254.63.107 to 144.90.121.101

At 1521 Server processed request from 140.61.165.252 to 218.252.239.36

At 1561 Server n processed request from 236.190.183.120 to 61.81.40.184

At 1603 Server processed request from 42.179.172.78 to 119.195.196.243

At 1622 Server } processed request from 176.177.91.225 to 211.99.93.169

At 1630 Server i processed request from 132.60.84.101 to 23.119.68.141

At 1648 Server processed request from 193.200.150.39 to 175.128.123.250

At 1690 Server processed request from 219.44.214.123 to 199.140.34.253

At 2290 Server a processed request from 126.127.112.12 to 87.240.17.217

At 2860 Server a processed request from 199.100.185.64 to 110.183.228.81

At 3157 Server a processed request from 133.1.53.212 to 171.138.254.54

At 3804 Server b processed request from 73.125.123.179 to 16.31.201.121

At 4036 Server c processed request from 231.26.33.69 to 64.60.171.115

At 4145 Server a processed request from 213.119.134.242 to 128.199.38.251

At 5951 Server b processed request from 52.88.175.207 to 131.23.152.203

At 5978 Server a processed request from 155.87.3.16 to 74.176.85.83

At 6162 Server c processed request from 191.238.16.173 to 234.69.12.175

At 7857 Server a processed request from 0.123.185.222 to 224.249.219.13

Initial Queue size: 200

Final number of requests handled: 211

--------Have a nice day--------

Appendix D: 100 servers and 10,000 cycles with increased random requests

--------Load Balancer Sim--------

Enter number of servers: 10

Enter runtime of Sim: 10000

Begin (y/n)? : y

Requests have a range of 5 to 200 clock cycles

At 128 Server d processed request from 154.201.159.51 to 183.13.50.102

At 177 Server c processed request from 231.232.27.248 to 46.90.118.141

At 332 Server h processed request from 161.62.233.112 to 103.252.225.65

At 388 Server a processed request from 81.115.105.198 to 41.236.74.255

At 398 Server e processed request from 37.90.163.88 to 88.23.5.93

At 426 Server b processed request from 251.242.171.186 to 194.124.70.227

At 542 Server f processed request from 178.171.212.94 to 180.155.198.205

At 587 Server i processed request from 234.151.126.1 to 143.150.107.220

At 654 Server h processed request from 117.148.124.60 to 137.97.190.216

At 721 Server c processed request from 58.170.250.251 to 230.209.41.251

At 813 Server j processed request from 176.236.42.92 to 175.50.251.59

At 884 Server e processed request from 247.239.5.179 to 58.161.233.0

At 961 Server g processed request from 116.130.14.17 to 220.61.33.65

At 1050 Server f processed request from 28.168.30.35 to 20.197.100.123

At 1065 Server d processed request from 219.24.236.84 to 254.26.2.92

At 1082 Server a processed request from 153.168.187.92 to 235.177.149.15

At 1315 Server i processed request from 75.94.197.90 to 112.59.99.121

At 1396 Server b processed request from 208.203.11.202 to 189.100.71.72

At 1423 Server h processed request from 9.158.17.36 to 172.212.170.220

At 1640 Server c processed request from 59.175.16.27 to 80.227.205.51

At 3178 Server c processed request from 9.38.111.130 to 55.234.93.116

At 3263 Server a processed request from 217.126.127.112 to 233.87.240.17

At 3412 Server e processed request from 249.34.238.112 to 81.46.255.86

At 3576 Server d processed request from 1.168.77.245 to 151.127.40.189

At 3588 Server b processed request from 251.53.221.104 to 94.112.26.218

At 3980 Server f processed request from 247.56.194.72 to 77.29.167.68

At 4011 Server a processed request from 81.199.100.185 to 39.110.183.228

At 4236 Server c processed request from 181.21.197.93 to 210.142.239.30

At 4308 Server f processed request from 62.84.116.164 to 11.170.114.27

At 4320 Server i processed request from 89.192.89.39 to 208.178.106.189

At 4334 Server g processed request from 161.182.125.96 to 144.183.123.219

At 4391 Server a processed request from 204.227.229.70 to 102.140.60.13

At 4532 Server e processed request from 19.89.169.100 to 21.235.29.236

At 4537 Server j processed request from 114.107.187.207 to 189.41.232.28

At 4557 Server d processed request from 230.233.48.166 to 59.173.77.233

At 4579 Server i processed request from 97.250.16.42 to 35.68.223.87

At 4637 Server h processed request from 240.108.30.166 to 171.218.156.197

At 4654 Server h processed request from 54.133.1.53 to 64.171.138.254

At 4657 Server b processed request from 41.216.196.66 to 19.104.117.133

At 4695 Server g processed request from 122.82.175.128 to 242.68.106.166

At 4738 Server c processed request from 76.202.24.246 to 90.183.133.231

At 4775 Server e processed request from 140.188.101.157 to 240.134.205.143

At 4846 Server a processed request from 107.172.170.201 to 173.202.47.74

At 4994 Server f processed request from 99.95.131.160 to 102.183.211.39

At 5094 Server d processed request from 97.143.115.15 to 168.13.57.61

At 5138 Server e processed request from 243.227.70.48 to 195.90.115.229

At 5165 Server g processed request from 2.12.254.45 to 105.135.13.51

At 5265 Server b processed request from 222.102.144.159 to 32.251.230.31

At 5360 Server h processed request from 150.46.48.152 to 109.3.212.251

At 5370 Server j processed request from 82.71.53.101 to 47.164.246.181

At 5387 Server i processed request from 146.48.114.60 to 155.79.149.15

At 5415 Server b processed request from 172.133.74.157 to 76.254.149.144

At 5521 Server b processed request from 115.231.26.33 to 186.64.60.171

At 5534 Server a processed request from 90.179.190.64 to 237.102.177.235

At 5543 Server j processed request from 59.145.253.81 to 245.18.32.7

At 5586 Server c processed request from 46.75.20.17 to 67.92.123.173

At 5604 Server e processed request from 166.64.142.19 to 41.89.254.207

At 5822 Server j processed request from 251.213.119.134 to 49.128.199.38

At 5867 Server g processed request from 238.215.143.10 to 128.59.75.2

At 5898 Server d processed request from 188.82.16.69 to 52.159.152.65

At 5915 Server f processed request from 126.77.116.115 to 180.202.98.133

At 5931 Server h processed request from 19.11.235.150 to 164.83.153.254

At 6162 Server i processed request from 46.163.49.93 to 123.179.237.206

At 6206 Server a processed request from 2.4.250.72 to 52.191.154.233

At 6312 Server b processed request from 221.151.147.135 to 97.87.127.32

At 6327 Server a processed request from 83.155.87.3 to 192.74.176.85

At 6405 Server c processed request from 114.169.185.27 to 89.232.146.104

At 6584 Server i processed request from 109.244.43.177 to 30.106.93.156

At 6645 Server h processed request from 95.118.209.46 to 213.84.180.115

At 6726 Server a processed request from 54.128.68.29 to 99.42.171.246

At 6954 Server f processed request from 129.253.105.113 to 192.29.84.108

At 7001 Server g processed request from 237.106.10.205 to 4.110.201.205

At 7031 Server d processed request from 55.129.95.194 to 31.205.192.141

At 7039 Server e processed request from 98.245.62.162 to 219.86.93.100

At 7076 Server h processed request from 24.131.191.110 to 18.152.199.220

At 7153 Server j processed request from 105.138.59.191 to 245.211.148.8

At 7192 Server a processed request from 140.32.60.68 to 21.242.238.196

At 7205 Server g processed request from 203.52.88.175 to 51.131.23.152

At 7294 Server b processed request from 242.101.99.156 to 240.104.55.145

At 7346 Server c processed request from 81.102.205.135 to 245.219.161.140

At 7390 Server i processed request from 209.158.200.112 to 87.55.1.100

At 7406 Server h processed request from 191.60.179.240 to 45.243.148.98

At 7470 Server e processed request from 137.132.101.226 to 245.96.87.114

At 7554 Server j processed request from 134.96.176.10 to 92.242.230.105

At 7620 Server i processed request from 146.17.200.145 to 95.135.56.141

At 7671 Server d processed request from 243.108.134.184 to 98.0.52.224

At 7705 Server f processed request from 60.112.241.147 to 50.218.56.97

At 7711 Server i processed request from 75.237.170.251 to 21.113.90.218

At 7795 Server h processed request from 59.38.109.48 to 221.115.240.15

At 7986 Server i processed request from 84.33.204.198 to 18.66.203.199

At 7988 Server j processed request from 177.57.255.104 to 34.194.1.144

At 8002 Server g processed request from 210.245.39.196 to 214.14.168.23

At 8035 Server a processed request from 232.40.92.38 to 199.109.142.62

At 8137 Server c processed request from 219.174.76.20 to 91.3.11.115

At 8161 Server f processed request from 139.111.240.174 to 10.196.110.88

At 8165 Server j processed request from 239.14.76.240 to 103.16.218.18

At 8166 Server b processed request from 206.56.201.162 to 90.46.233.212

At 8221 Server d processed request from 37.71.136.97 to 147.67.83.229

At 8270 Server i processed request from 19.187.78.160 to 136.130.171.252

At 8271 Server e processed request from 174.30.12.92 to 251.93.106.32

At 8345 Server e processed request from 192.222.2.23 to 144.20.207.97

At 8366 Server a processed request from 164.41.152.124 to 76.95.119.56

At 8430 Server i processed request from 233.103.69.29 to 66.139.146.193

At 8501 Server h processed request from 6.186.132.156 to 11.77.66.229

At 8577 Server g processed request from 128.180.169.219 to 75.58.56.69

At 8611 Server f processed request from 175.191.238.16 to 91.234.69.12

At 8682 Server c processed request from 14.252.206.10 to 174.28.72.191

At 8746 Server a processed request from 210.90.167.199 to 174.57.160.197

At 8817 Server h processed request from 41.151.38.94 to 36.226.226.109

At 8884 Server b processed request from 46.84.241.95 to 237.187.50.252

At 8900 Server i processed request from 177.163.58.204 to 17.143.166.81

At 8990 Server j processed request from 129.162.43.123 to 248.192.139.83

At 9010 Server d processed request from 25.16.155.107 to 91.216.255.171

At 9016 Server d processed request from 243.236.194.75 to 41.237.184.250

At 9175 Server g processed request from 53.104.236.54 to 134.144.16.179

At 9210 Server h processed request from 63.81.36.96 to 235.63.204.221

At 9246 Server f processed request from 13.0.123.185 to 82.224.249.219

At 9270 Server c processed request from 201.154.214.244 to 54.167.221.130

At 9289 Server e processed request from 183.184.75.71 to 207.200.84.182

At 9381 Server e processed request from 20.99.43.92 to 144.80.53.221

At 9404 Server j processed request from 45.255.227.9 to 131.126.36.68

At 9465 Server g processed request from 142.145.29.172 to 84.141.116.38

At 9521 Server a processed request from 24.128.139.244 to 30.167.7.205

At 9551 Server a processed request from 215.145.39.132 to 185.59.192.116

At 9713 Server b processed request from 47.250.203.56 to 137.202.208.192

At 9787 Server i processed request from 129.136.48.167 to 60.1.20.36

At 9866 Server f processed request from 207.33.253.87 to 203.208.20.187

At 9941 Server d processed request from 16.1.243.189 to 28.152.49.154

Initial Queue size: 20

Final number of requests handled: 138

--------Have a nice day--------

Appendix E: 100 servers and clock cycles with more random requests and longer requests

--------Load Balancer Sim--------

Enter number of servers: 100

Enter runtime of Sim: 10000

Begin (y/n)? : y

Requests have a range of 5 to 200 clock cycles

At 186 Server processed request from 249.128.55.207 to 215.156.98.220

At 202 Server { processed request from 92.4.59.115 to 179.148.54.211

At 274 Server processed request from 93.71.13.34 to 120.135.155.205

At 302 Server processed request from 74.109.30.176 to 115.124.209.79

At 503 Server processed request from 168.217.152.100 to 112.101.117.135

At 568 Server processed request from 13.167.188.209 to 171.191.155.190

At 618 Server processed request from 83.94.226.233 to 178.210.170.96

At 728 Server r processed request from 75.94.197.90 to 112.59.99.121

At 862 Server processed request from 110.94.128.195 to 76.218.40.3

At 1160 Server processed request from 49.251.148.58 to 87.50.144.153

At 1262 Server processed request from 73.2.32.110 to 127.160.226.129

At 1343 Server processed request from 251.163.226.165 to 84.71.19.183

At 1398 Server e processed request from 37.90.163.88 to 88.23.5.93

At 1426 Server b processed request from 251.242.171.186 to 194.124.70.227

At 1437 Server u processed request from 187.92.21.71 to 186.25.34.111

At 1496 Server processed request from 13.191.103.155 to 78.126.140.233

At 1844 Server processed request from 58.206.75.113 to 118.79.167.117

At 1865 Server processed request from 233.188.155.238 to 8.207.37.229

At 2014 Server processed request from 195.134.186.32 to 236.241.5.62

At 2041 Server processed request from 37.21.232.45 to 174.143.92.203

At 2127 Server processed request from 35.50.99.49 to 91.118.206.78

At 2171 Server processed request from 181.151.200.149 to 210.48.128.18

At 2265 Server processed request from 163.69.205.217 to 255.1.198.145

At 2284 Server processed request from 105.142.105.141 to 8.209.47.221

At 2303 Server processed request from 81.126.76.126 to 132.72.179.37

At 2427 Server processed request from 190.1.148.5 to 120.68.188.180

At 2465 Server processed request from 192.124.241.102 to 252.34.187.124

At 2605 Server processed request from 243.91.172.68 to 45.215.76.142

At 2757 Server e processed request from 117.44.138.113 to 238.106.188.164

At 2811 Server processed request from 156.76.112.213 to 152.15.234.134

At 2895 Server processed request from 128.98.63.138 to 124.222.68.41

At 3079 Server processed request from 101.113.205.129 to 73.171.62.166

At 3079 Server processed request from 201.99.185.198 to 151.112.31.138

At 3322 Server m processed request from 117.148.124.60 to 137.97.190.216

At 3329 Server y processed request from 250.119.78.95 to 172.5.108.203

At 3470 Server ~ processed request from 10.154.72.84 to 24.14.213.188

At 3508 Server processed request from 168.34.24.159 to 162.253.200.75

At 3534 Server processed request from 42.55.194.178 to 97.207.8.203

At 3619 Server processed request from 214.1.152.213 to 246.214.242.229

At 3818 Server processed request from 33.77.182.113 to 46.113.40.107

At 3855 Server processed request from 35.230.105.73 to 105.218.26.208

At 3945 Server e processed request from 13.96.79.217 to 205.221.198.237

At 3948 Server processed request from 139.253.216.13 to 164.161.194.22

At 4067 Server processed request from 191.67.59.20 to 85.208.1.42

At 4103 Server processed request from 140.124.249.189 to 164.91.199.106

At 4239 Server processed request from 73.108.202.130 to 22.205.144.174

At 4339 Server processed request from 170.3.196.230 to 96.118.215.230

At 4344 Server processed request from 184.31.7.172 to 45.52.17.109

At 4400 Server v processed request from 225.11.245.125 to 35.127.28.26

At 4432 Server processed request from 88.243.104.106 to 43.71.6.70

At 4486 Server o processed request from 247.239.5.179 to 58.161.233.0

At 4593 Server processed request from 73.244.144.26 to 72.75.21.254

At 4803 Server e processed request from 146.7.242.61 to 90.201.250.101

At 4893 Server processed request from 51.171.53.66 to 207.226.56.113

At 4918 Server processed request from 135.59.225.205 to 118.138.116.96

At 4919 Server t processed request from 59.175.16.27 to 80.227.205.51

At 4982 Server processed request from 16.0.240.77 to 153.207.103.139

At 5128 Server d processed request from 154.201.159.51 to 183.13.50.102

At 5203 Server processed request from 212.48.102.35 to 253.238.187.226

At 5285 Server r processed request from 227.105.71.227 to 185.152.182.17

At 5326 Server processed request from 153.183.51.103 to 20.227.163.80

At 5345 Server processed request from 216.2.57.69 to 157.248.10.229

At 5372 Server processed request from 103.131.36.228 to 18.150.237.216

At 5409 Server processed request from 237.178.244.2 to 243.236.22.114

At 5431 Server processed request from 202.204.57.58 to 121.232.92.148

At 5595 Server z processed request from 26.170.43.33 to 112.190.162.85

At 5623 Server processed request from 20.22.227.151 to 146.40.248.226

At 5666 Server } processed request from 8.169.78.130 to 138.178.212.112

At 5672 Server processed request from 94.247.52.217 to 168.16.242.160

At 5715 Server processed request from 26.137.86.12 to 1.27.33.43

At 5861 Server ~ processed request from 126.65.120.201 to 191.1.222.213

At 5890 Server d processed request from 108.90.220.231 to 150.7.116.136

At 5933 Server w processed request from 27.164.248.41 to 78.202.181.19

At 6100 Server processed request from 43.17.190.239 to 190.56.107.239

At 6232 Server u processed request from 245.100.27.135 to 231.28.171.97

At 6317 Server processed request from 166.122.172.186 to 202.168.180.242

At 6332 Server h processed request from 161.62.233.112 to 103.252.225.65

At 6385 Server processed request from 93.110.209.92 to 98.96.50.183

At 6408 Server processed request from 122.204.211.34 to 97.239.99.40

At 6408 Server processed request from 58.47.105.180 to 22.39.175.255

At 6434 Server processed request from 212.137.79.239 to 193.53.99.182

At 6456 Server processed request from 100.71.19.39 to 171.55.233.123

At 6471 Server processed request from 196.74.236.28 to 35.32.246.48

At 6537 Server processed request from 42.104.161.116 to 29.143.131.40

At 6687 Server processed request from 129.255.100.126 to 254.253.97.235

At 6722 Server processed request from 142.22.197.62 to 175.45.46.33

At 6769 Server processed request from 134.39.70.69 to 141.169.63.229

At 6789 Server processed request from 216.84.250.133 to 102.212.232.53

At 6808 Server processed request from 163.43.98.141 to 49.170.29.159

At 6813 Server j processed request from 176.236.42.92 to 175.50.251.59

At 6845 Server x processed request from 224.56.50.152 to 52.61.77.121

At 6878 Server processed request from 1.21.217.42 to 21.238.47.67

At 6913 Server b processed request from 21.2.57.127 to 140.43.234.103

At 6955 Server processed request from 235.210.13.14 to 58.108.31.178

At 6968 Server processed request from 210.146.210.207 to 97.53.75.152

At 6970 Server p processed request from 208.203.11.202 to 189.100.71.72

At 7136 Server processed request from 6.229.66.9 to 205.175.51.196

At 7245 Server e processed request from 211.230.30.71 to 104.207.17.186

At 7323 Server processed request from 168.181.77.202 to 225.94.7.138

At 7348 Server | processed request from 158.228.240.226 to 73.21.50.79

At 7425 Server processed request from 192.188.132.97 to 243.150.71.21

At 7450 Server processed request from 7.178.251.108 to 11.236.244.4

At 7538 Server processed request from 217.126.127.112 to 233.87.240.17

At 7544 Server l processed request from 58.170.250.251 to 230.209.41.251

At 7547 Server m processed request from 207.13.90.49 to 19.61.222.182

At 7561 Server processed request from 11.97.218.102 to 188.98.175.99

At 7629 Server ~ processed request from 61.0.99.209 to 228.1.161.134

At 7647 Server processed request from 101.125.12.77 to 2.243.230.153

At 7682 Server processed request from 136.129.77.164 to 238.26.83.28

At 7691 Server processed request from 23.236.128.149 to 140.241.133.228

At 7757 Server processed request from 245.55.242.115 to 58.54.175.187

At 7769 Server s processed request from 9.158.17.36 to 172.212.170.220

At 7819 Server processed request from 132.60.84.101 to 23.119.68.141

At 7830 Server r processed request from 48.211.161.104 to 152.96.57.196

At 7911 Server processed request from 57.117.151.84 to 155.5.174.209

At 7950 Server processed request from 253.86.224.97 to 113.200.67.22

At 8028 Server processed request from 150.165.209.9 to 149.31.244.193

At 8229 Server processed request from 194.80.219.181 to 90.9.93.253

At 8230 Server processed request from 179.27.116.109 to 33.178.91.239

At 8270 Server processed request from 49.24.135.27 to 219.139.244.110

At 8276 Server processed request from 224.207.102.157 to 135.157.83.199

At 8278 Server processed request from 62.84.116.164 to 11.170.114.27

At 8529 Server processed request from 97.250.16.42 to 35.68.223.87

At 8542 Server f processed request from 178.171.212.94 to 180.155.198.205

At 8770 Server ~ processed request from 81.199.100.185 to 39.110.183.228

At 8781 Server processed request from 229.30.144.91 to 119.17.168.2

At 8835 Server processed request from 180.14.214.157 to 95.242.179.211

At 8837 Server p processed request from 236.190.183.120 to 61.81.40.184

At 8860 Server processed request from 222.214.138.145 to 223.25.183.87

At 8903 Server processed request from 13.83.156.235 to 216.90.250.167

At 8904 Server processed request from 173.45.127.132 to 222.71.118.212

At 8950 Server j processed request from 26.51.113.205 to 93.45.3.204

At 8992 Server processed request from 154.86.34.0 to 254.209.24.212

At 9048 Server processed request from 181.21.197.93 to 210.142.239.30

At 9127 Server processed request from 49.77.167.10 to 160.3.91.181

At 9158 Server processed request from 253.239.144.120 to 100.64.43.165

At 9161 Server processed request from 107.254.63.107 to 144.90.121.101

At 9164 Server processed request from 17.115.158.22 to 96.4.219.8

At 9177 Server c processed request from 231.232.27.248 to 46.90.118.141

At 9185 Server x processed request from 211.144.252.22 to 121.238.163.79

At 9216 Server processed request from 59.76.36.102 to 172.168.30.121

At 9240 Server processed request from 247.196.86.95 to 64.51.25.187

At 9293 Server { processed request from 87.182.82.61 to 76.196.212.2

At 9319 Server processed request from 19.124.97.135 to 252.105.158.98

At 9358 Server x processed request from 59.145.253.81 to 245.18.32.7

At 9388 Server a processed request from 81.115.105.198 to 41.236.74.255

At 9440 Server processed request from 171.42.84.192 to 246.248.78.186

At 9484 Server processed request from 210.237.25.106 to 121.76.153.211

At 9490 Server processed request from 229.239.19.222 to 171.226.199.32

At 9508 Server q processed request from 28.168.30.35 to 20.197.100.123

At 9508 Server processed request from 54.121.216.55 to 191.150.200.178

At 9587 Server i processed request from 234.151.126.1 to 143.150.107.220

At 9613 Server processed request from 153.21.106.48 to 209.244.50.78

At 9670 Server processed request from 87.85.166.51 to 240.238.29.59

At 9690 Server processed request from 51.108.209.85 to 247.188.194.221

At 9694 Server n processed request from 153.168.187.92 to 235.177.149.15

At 9699 Server processed request from 176.19.226.255 to 185.174.82.77

At 9749 Server processed request from 142.159.23.91 to 97.10.152.212

At 9784 Server processed request from 16.154.202.35 to 239.46.125.155

At 9802 Server processed request from 89.87.78.137 to 172.173.81.211

At 9937 Server k processed request from 219.24.236.84 to 254.26.2.92

At 9961 Server g processed request from 116.130.14.17 to 220.61.33.65

At 9963 Server processed request from 109.244.43.177 to 30.106.93.156

At 9998 Server i processed request from 95.118.209.46 to 213.84.180.115

At 10004 Server processed request from 192.123.233.74 to 123.13.49.90

At 10009 Server processed request from 132.152.16.71 to 36.59.161.214

At 10084 Server u processed request from 6.28.226.45 to 188.43.117.138

At 10086 Server z processed request from 50.255.64.122 to 203.121.18.103

At 10113 Server processed request from 173.252.43.156 to 105.35.172.159

At 10123 Server processed request from 91.202.237.54 to 181.219.2.188

At 10265 Server processed request from 202.118.176.116 to 37.117.171.242

At 10294 Server e processed request from 17.44.152.198 to 238.214.131.247

At 10311 Server | processed request from 219.44.214.123 to 199.140.34.253

At 10318 Server processed request from 140.61.165.252 to 218.252.239.36

At 10380 Server processed request from 138.243.8.57 to 241.82.137.47

At 10396 Server t processed request from 43.239.123.38 to 150.17.13.195

At 10462 Server processed request from 149.126.33.239 to 133.83.54.153

At 10693 Server processed request from 182.112.178.126 to 229.210.82.223

At 10869 Server processed request from 171.53.251.22 to 242.163.169.106

At 10927 Server u processed request from 232.40.92.38 to 199.109.142.62

At 10968 Server processed request from 84.33.204.198 to 18.66.203.199

At 10992 Server d processed request from 49.37.89.168 to 122.76.154.199

At 11018 Server o processed request from 234.196.222.206 to 21.213.204.140

At 11163 Server y processed request from 135.247.116.111 to 226.0.208.171

At 11211 Server u processed request from 19.187.78.160 to 136.130.171.252

At 11344 Server processed request from 14.154.26.172 to 77.168.100.61

At 11346 Server processed request from 115.231.26.33 to 186.64.60.171

At 11474 Server v processed request from 83.30.227.209 to 225.47.25.135

At 11748 Server c processed request from 19.11.235.150 to 164.83.153.254

At 11752 Server processed request from 46.75.20.17 to 67.92.123.173

At 11770 Server processed request from 16.57.2.98 to 253.86.69.114

At 11774 Server processed request from 130.91.29.228 to 208.0.103.107

At 11774 Server processed request from 245.107.29.31 to 216.16.125.90

At 11873 Server processed request from 234.131.156.92 to 102.255.237.205

At 11931 Server processed request from 188.82.16.69 to 52.159.152.65

At 11991 Server processed request from 46.163.49.93 to 123.179.237.206

At 12189 Server processed request from 41.151.38.94 to 36.226.226.109

At 12373 Server processed request from 2.12.254.45 to 105.135.13.51

At 12375 Server f processed request from 82.71.53.101 to 47.164.246.181

At 12378 Server processed request from 230.233.48.166 to 59.173.77.233

At 12410 Server processed request from 134.96.176.10 to 92.242.230.105

At 12419 Server } processed request from 94.196.160.35 to 76.117.167.56

At 12419 Server processed request from 19.89.169.100 to 21.235.29.236

At 12514 Server processed request from 145.19.207.91 to 33.159.233.108

At 12565 Server processed request from 94.175.141.60 to 79.147.171.163

At 12566 Server processed request from 9.38.111.130 to 55.234.93.116

At 12575 Server processed request from 6.186.132.156 to 11.77.66.229

At 12578 Server processed request from 114.107.187.207 to 189.41.232.28

At 12680 Server processed request from 90.179.190.64 to 237.102.177.235

At 12710 Server processed request from 181.190.178.100 to 198.32.219.209

At 12752 Server processed request from 177.57.255.104 to 34.194.1.144

At 12809 Server m processed request from 249.34.238.112 to 81.46.255.86

At 12830 Server processed request from 78.183.8.197 to 26.248.228.176

At 12855 Server h processed request from 126.27.18.61 to 38.205.236.154

At 12970 Server l processed request from 1.168.77.245 to 151.127.40.189

At 13155 Server processed request from 27.26.139.124 to 68.223.249.90

At 13169 Server processed request from 129.162.43.123 to 248.192.139.83

At 13280 Server r processed request from 89.192.89.39 to 208.178.106.189

At 13334 Server processed request from 191.60.179.240 to 45.243.148.98

At 13403 Server processed request from 42.179.172.78 to 119.195.196.243

At 13414 Server processed request from 42.27.19.82 to 164.219.118.244

At 13529 Server processed request from 53.104.236.54 to 134.144.16.179

At 13555 Server processed request from 209.158.200.112 to 87.55.1.100

At 13589 Server processed request from 105.138.59.191 to 245.211.148.8

At 13624 Server processed request from 166.64.142.19 to 41.89.254.207

At 13637 Server processed request from 122.82.175.128 to 242.68.106.166

At 13640 Server m processed request from 236.248.102.221 to 215.79.36.194

At 13643 Server processed request from 176.177.91.225 to 211.99.93.169

At 13661 Server u processed request from 175.191.238.16 to 91.234.69.12

At 13670 Server processed request from 90.220.250.164 to 112.73.108.115

At 13772 Server processed request from 140.188.101.157 to 240.134.205.143

At 13826 Server processed request from 192.222.2.23 to 144.20.207.97

At 13833 Server processed request from 137.235.8.173 to 56.180.77.149

At 13863 Server processed request from 238.215.143.10 to 128.59.75.2

At 13985 Server processed request from 206.56.201.162 to 90.46.233.212

At 14064 Server processed request from 46.84.241.95 to 237.187.50.252

At 14200 Server processed request from 225.227.131.180 to 117.86.137.202

At 14228 Server q processed request from 129.253.105.113 to 192.29.84.108

At 14275 Server processed request from 237.106.10.205 to 4.110.201.205

At 14295 Server processed request from 98.245.62.162 to 219.86.93.100

At 14391 Server processed request from 247.56.194.72 to 77.29.167.68

At 14408 Server processed request from 204.227.229.70 to 102.140.60.13

At 14434 Server processed request from 41.216.196.66 to 19.104.117.133

At 14467 Server processed request from 139.70.11.112 to 88.163.205.39

At 14523 Server w processed request from 106.170.45.167 to 69.248.68.242

Initial Queue size: 200

Final number of requests handled: 345

--------Have a nice day--------