SOFTWARE SYSTEMS LAB (COP 701)

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PART THREE

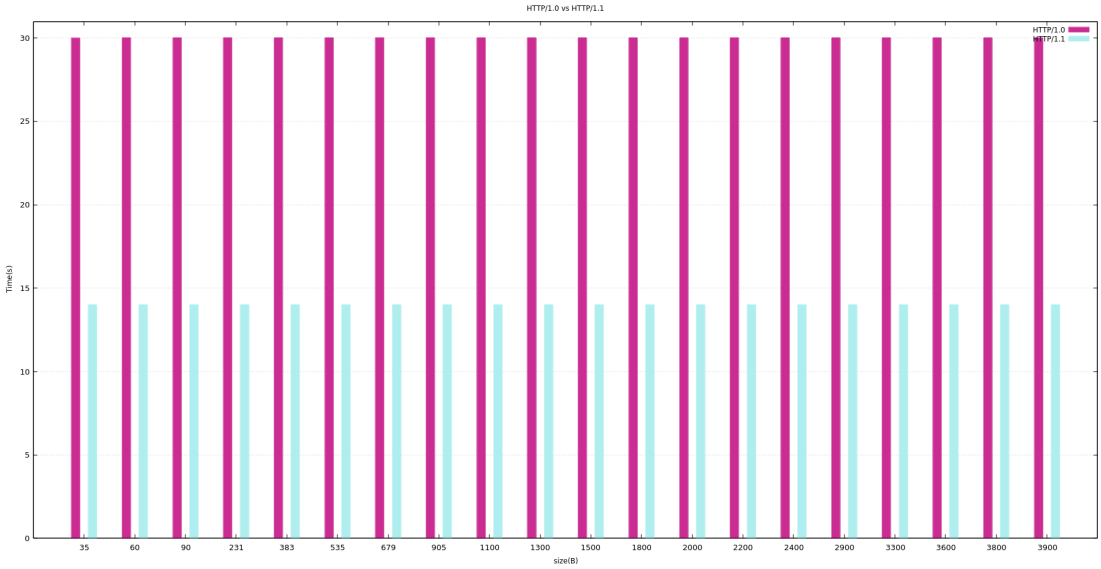
1 COMPARISON OF HTTP/1.1 and HTTP/1.0

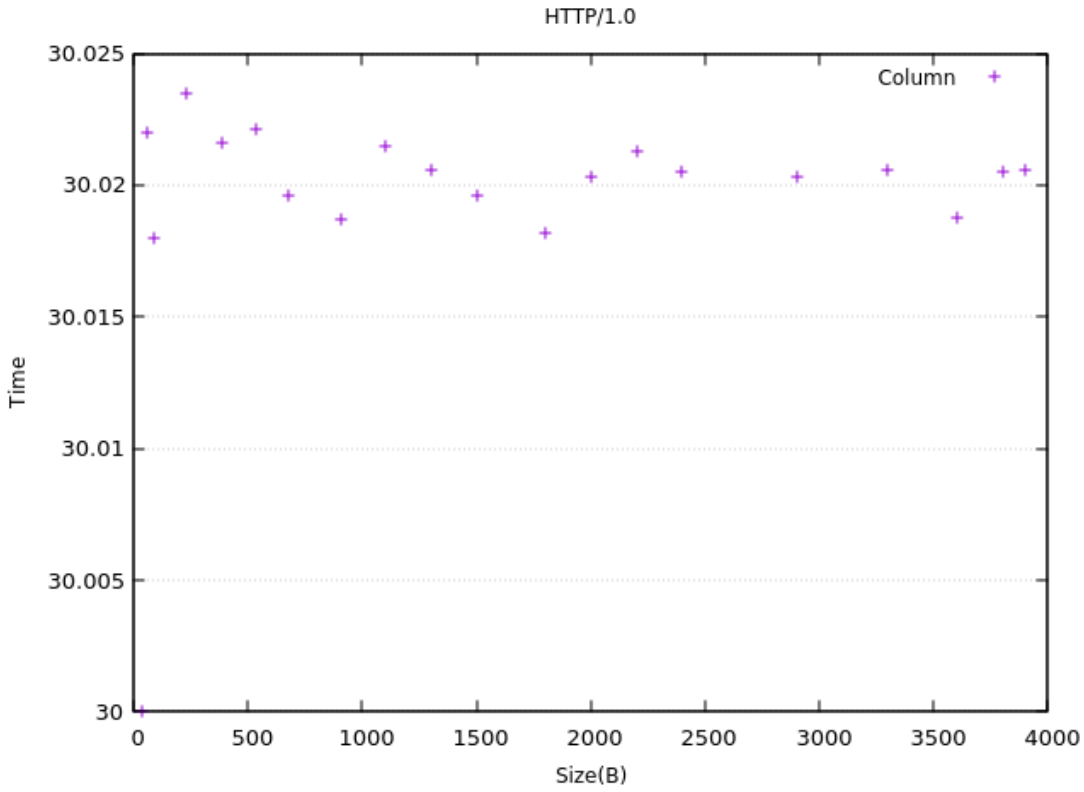
We used telnet to request our server to send files of varying length. Each file was requested 5 times, so that we cant get the difference between their operation Times.
Each time is recorded from start of giving the request to end of our execution.

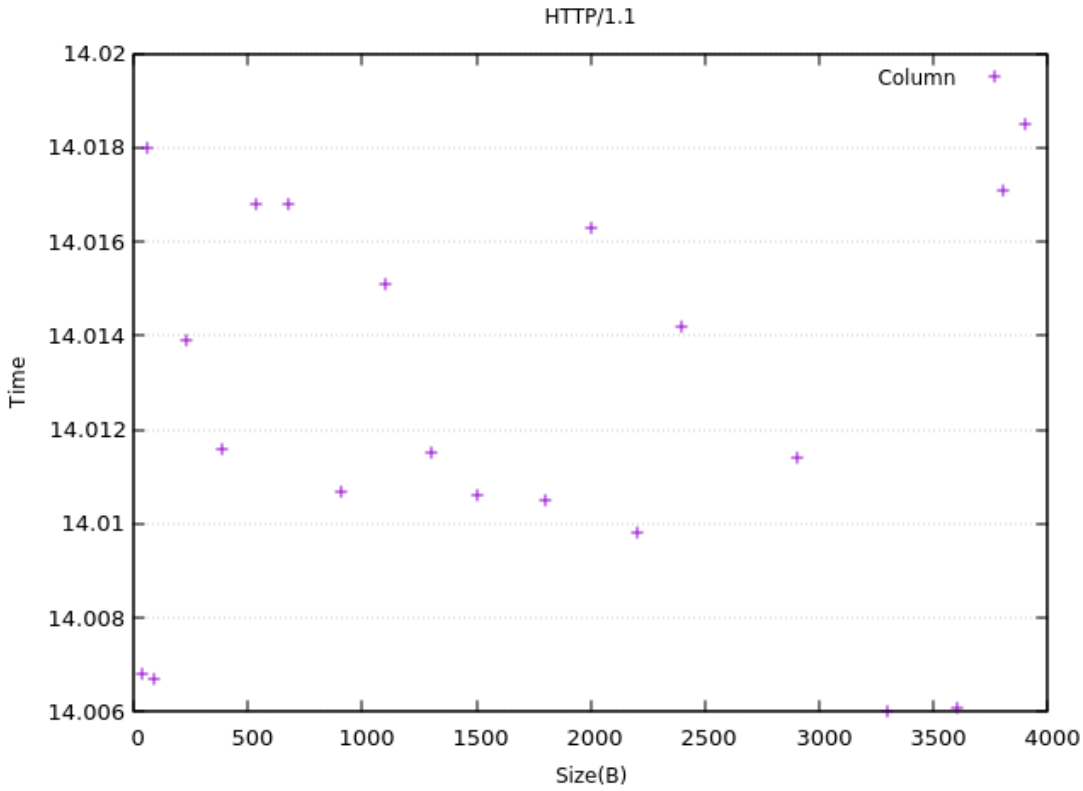
i. HTTP/1.0

file Size(B)	HTTP 1.0 (s)	HTTP 1.1(s)
35	30	14.0068
60	30.022	14.0180
90	30.018	14.0067
231	30.0235	14.0139
383	30.0216	14.0116
535	30.0221	14.0168
679	30.0196	14.0168
905	30.0187	14.0107
1100	30.0215	14.0151
1300	30.0206	14.0115
1500	30.0196	14.0106
1800	30.0182	14.0105
2000	30.0203	14.0163
2200	30.0213	14.0098
2400	30.0205	14.0142
2900	30.0203	14.0114
3300	30.0206	14.0060
3600	30.0188	14.0061
3800	30.0205	14.0171
3900	30.0206	14.0185

VISUALISING THE DIFFERENCE FROM GRAPHS







Observations:

We can see from above that for small file sizes(in Bytes) the difference to fetch them is very small compared to the time taken for connection establishment and termination. So, in Graph 1 we can see the big difference between what establishing a connection to server for each req in case on HTTP/1.0 and for a connection makes a difference in Time.

Despite HTTP/1.1 being faster to service the request it takes more resources than HTTP/1.0 which only consumes resources when a req is needed. So there is a tradeoff.