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http-server-dckao

CSE 124 Project 4

Experiment 1: N Independent Requests

For the following number of requests, the average response time is as follows:

Number of Requests	Average Response Time (ms)
10	89
20	88
30	88

Experiment 2: P Parallel Requests, all must Complete

Number of Parallel Requests	Total Response Time (ms)
10	133
20	284
30	327

Experiment 3: P Parallel Requests, 90% must Complete

Number of Parallel Requests	Response Time of 90% of Requests (ms)
10	112
20	132
30	130

Response Question

By shedding the slowest 10% of the requests, the effect of the speedup becomes quite significant as the number of requests increases. This is because when the number of parallel requests increases, the variance of the response time becomes greater with a small number of requests taking a very long time. By ignoring the slowest 10% of responses, we can maintain the maximum request time at a reasonable amount.