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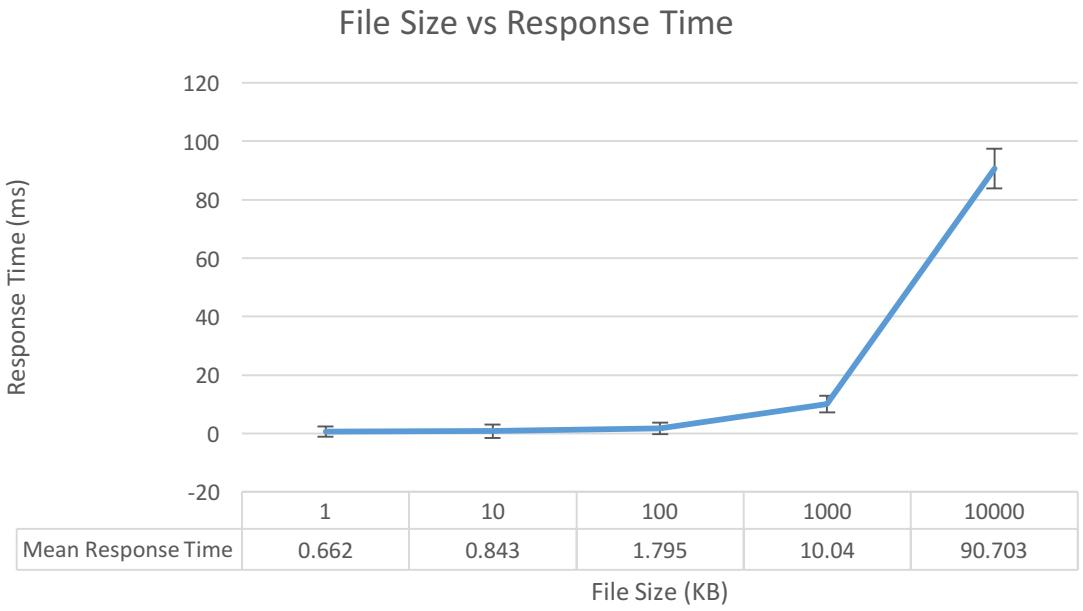
http-server-dckao

CSE 124 Project 3

Experiment 1



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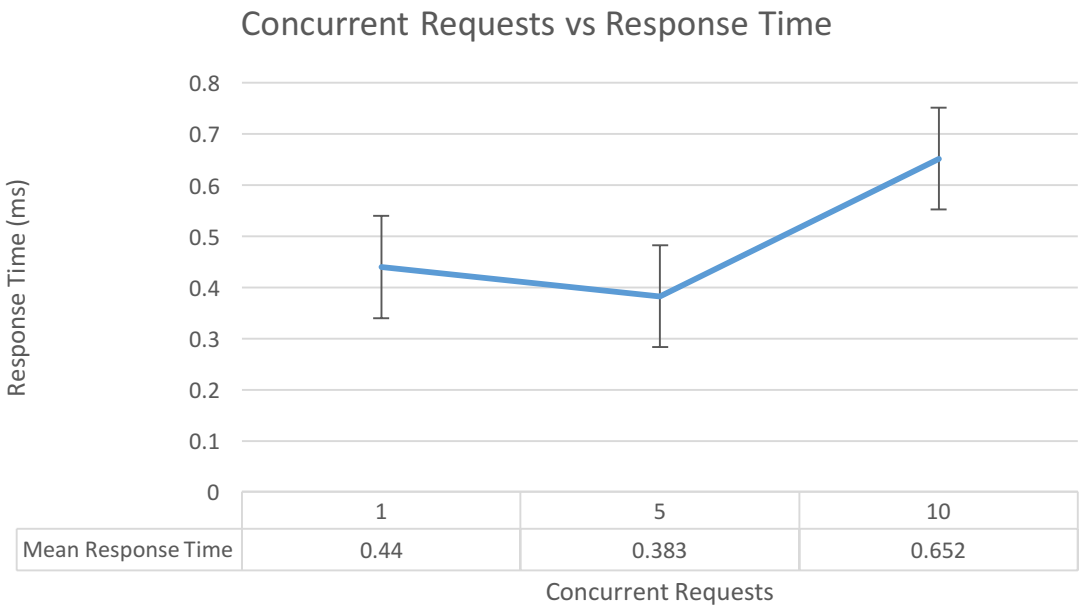

- Under best circumstances, http-server-dckao can serve about 15000 requests per second. This varies based on the number of concurrent loads and the size of the file that is being requested.
- Concurrency determines the throughput in terms of requests/second more than the file size. This is because more concurrent connections can be processed in parallel in a second.

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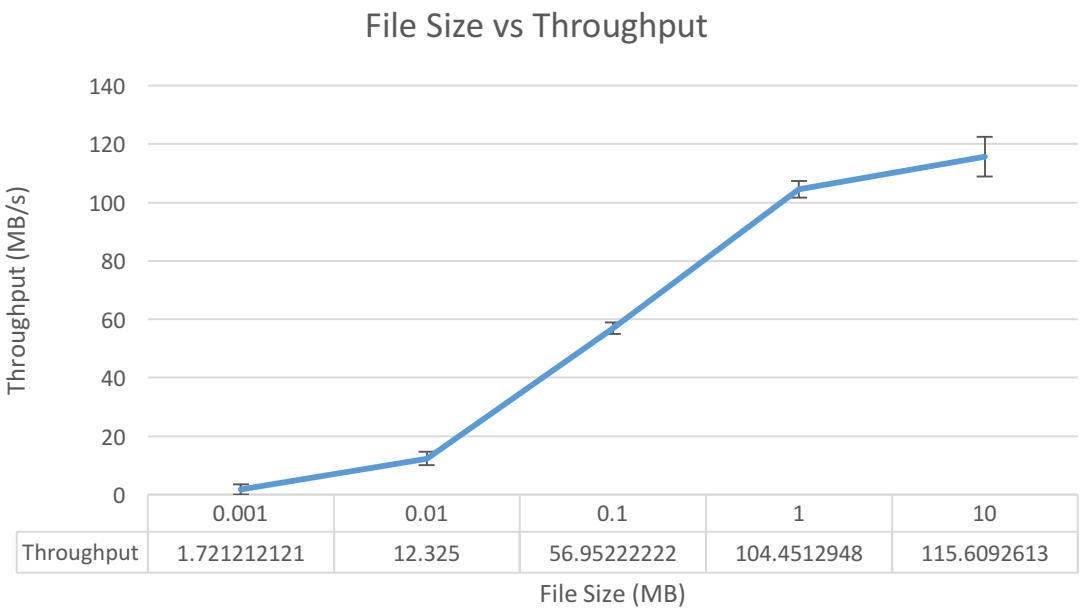
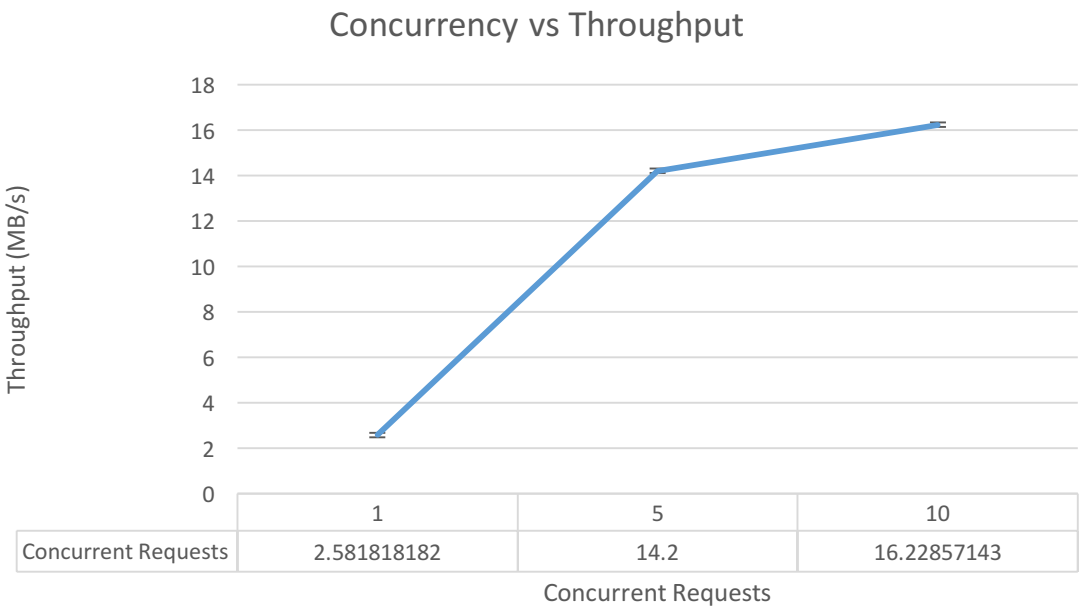
Experiment 2



	0.001	0.01	0.1	1	10
Throughput	1.721212121	12.325	56.95222222	104.4512948	115.6092613



	1	5	10
Concurrent Requests	2.581818182	14.2	16.22857143

- The two graphs in experiment are a measure of total throughput.
- It appears that my webserver is able to up to about 200 MB/s using the optimal combination of concurrency and file size.

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- The limiting bottleneck of my webserver is the internet bandwidth.
- The file size determines the throughput more than the concurrency. This is because as the file size increases, the response time increases linearly where as increasing the number of concurrent threads seems to have a limit as to how fast it can serve requests.