Certain Performance Factors

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# Analysis:

As the size of data increased from 1KB to 1GB, there is definitely and increase the amount of time required transferring the files. The system has a consistent performance with respect to search and put operations.

## Register/Search Operations:

Approximate time to register and locate the entries varied from 2 to 6 seconds for 1 to 8 clients. The following graphs show that the increase is not exponential and the system was able to scale well.

## Download Operations:

Approximate time to obtain the file increased with the size and the number of clients. A fact to notice is that increase in time is not directly proportional to the number of clients and size i.e. as the number of clients and the size of file increases, the time to download the file will increase but it would not be exponential.

Next sections cover the graphical representation for the observations stated above.

# Performance graph for 1KB

# Performance graph for 10 KB

# Performance graph for 100 KB

# Performance graph for 1 MB

# Performance graph for 10 MB

# Performance graph for 100 MB

# Performance graph for 1 GB