#### FILE RETRIEVAL BENCHMARK

## Dataset1: 1 Client (client\_1)

#### Dataset1: 2 Clients (client\_1 and client\_2)

# Dataset1: 4 Clients (client\_1, client\_2, client\_3 and client\_4)

```
| ImpatisSroub:-/esc-438-pak-Reham-Patis-1/app-java$ java -cp target/app-java-1.0-SNAPSHOT.jar csc435.app.FileRetrievalBenchmark 127.0.0.0.1 3019 4 /mnt/shared/dataset1_client_server/4_clients/client_1 /mnt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_5 /mt/shared/dataset1_client_server/4_clients/client_3 /mt/shared/dataset1_client_server/4_clients/client_3 /mt/shared/dataset1_client_server/4_clients/client_3 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_4 /mt/shared/dataset1_client_server/4_clients/client_6 /mt/shared/dataset1_client_server/4_clien
```

## Dataset2: 1 Client (client 1)

```
| IraquisSproub:-/csc-435-pa4-Rohan-Patil-1/app-javaS java -op target/app-java-1.0-SNAPSHOT.jar csc435-app.FileRetrievalBenchmark 127.0.0.1 /mnt/shared/dataset2_client_server/1_client/client_1 /mnt/shared/dataset2_client_server/1_client/client_
```

#### Dataset2: 2 Clients (client 1 and client 2)

## Dataset2: 4 Clients (client 1, client 2, client 3 and client 4)

```
| TastilSFount-/cs-485-se-Rebhan-Still/Japp-jawS jawa -co target/app-java-1.e-SNAPSHOT.jar csc485.app.fileRetrievalBenchmark 127.e.e.1 3819 4 /mnt/shared/dataset2_client_server/4_clients/client_1 /mnt/shared/dataset2_client_server/4_clients/client_2 /mnt/shared/dataset2_client_server/4_clients/client_2 /mnt/shared/dataset2_client_server/4_clients/client_2 /mnt/shared/dataset2_client_server/4_clients/client_2 /mnt/shared/dataset2_client_server/4_clients/client_2 in 94.82 seconds, 134788611 bytes read Worker indexed dataset //mnt/shared/dataset2_client_server/4_clients/client_2 in 97.94 seconds, 134788632 bytes read Worker indexed dataset //mnt/shared/dataset2_client_server/4_clients/client_1 in 18.09 seconds, 135540384 bytes read Worker indexed dataset //mnt/shared/dataset2_client_server/4_clients/client_1 in 18.09 seconds, 13261820 bytes read Worker indexed dataset //mnt/shared/dataset2_client_server/4_clients/client_1 in 18.09 seconds, 13261820 bytes read Worker indexed dataset //mnt/shared/dataset2_client_server/4_clients/client_1 in 18.07 seconds, 13261820 bytes read Worker indexed dataset //mnt/shared/dataset2_client_server/4_clients/client_1 in 18.07 seconds, 13261820 bytes read Worker indexed dataset //mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt:13

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt:13

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt:40

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt:33

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt:33

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt:40

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt (frequency: 45)

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt (frequency: 45)

* /mnt/shared/dataset2_client_server/4_clients/client_1 includer2/Document18996.txt (freque
```

## Dataset3: 1 Client (client 1)

#### Dataset3: 2 Clients (client 1 and client 2)

```
| Example | Part | Part
```

#### Dataset3: 4 Clients (client 1, client 2, client 3 and client 4)

```
| ImpatilSproub:/csc-435-pa4-Rohan-Patil-1/app-javs$ java -cp target/app-java-1.8-SMAPSHOT.jar csc435.app.FileRetrievalBenchmark 127.8.8.1 3819 4 /mmt/shared/dataset3_client_server/4_clients/client_1 /mmt/shared/dataset3_client_server/4_clients/client_2 /mmt/shared/dataset3_client_server/4_clients/client_3 /mmt/shared/dataset3_client_server/4_clients/client_4 /motert/server/server/4_clients/client_4 /motert/server/server/4_clients/client_4 /motert/server/server/4_clients/client_4 /motert/server/server/4_clients/client_4 /motert/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/server/s
```

Additional feature: Whenever i use "Quit" at server end, all the allocated memory and cache gets cleared and again can run huge dataset with ease.

## FILE RETRIEVAL BENCHMARK TABLE:

Dataset	Client	Indexing time	Searching time
Dataset1	1_client	22.97s	0.0255s
	2_clients	9.44s	0.0190s
	4_clients	8.61s	0.0137s
Dataset2	1_client	79.24s	0.0238s
	2_clients	82.01s	0.0205s
	4_clients	110.22s	0.0188s
Dataset3	1_client	547.32s	0.0406s
	2_clients	526.08s	0.0943s
	4_clients	301.85s	0.0254s