Performance Evaluation

Test 1:

- 1000 register file requests
- 1000 search file requests

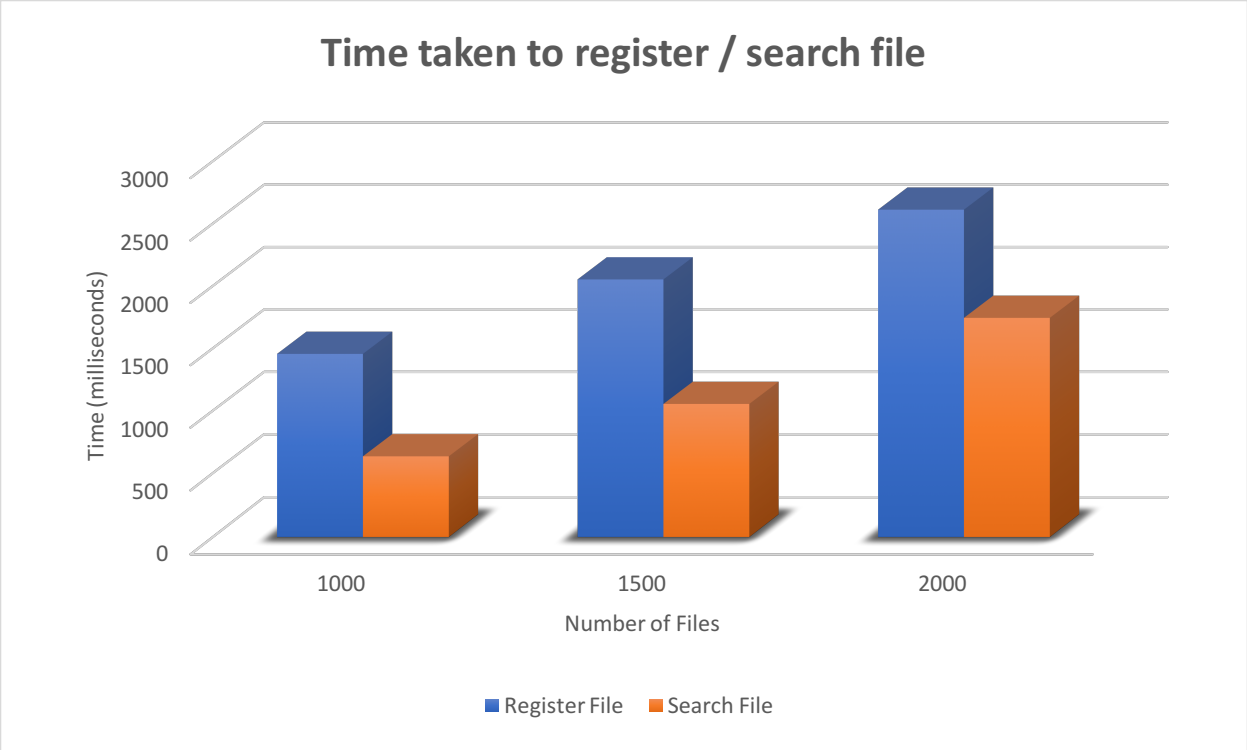
Test 2:

- 1500 register file requests
- 1500 search file requests

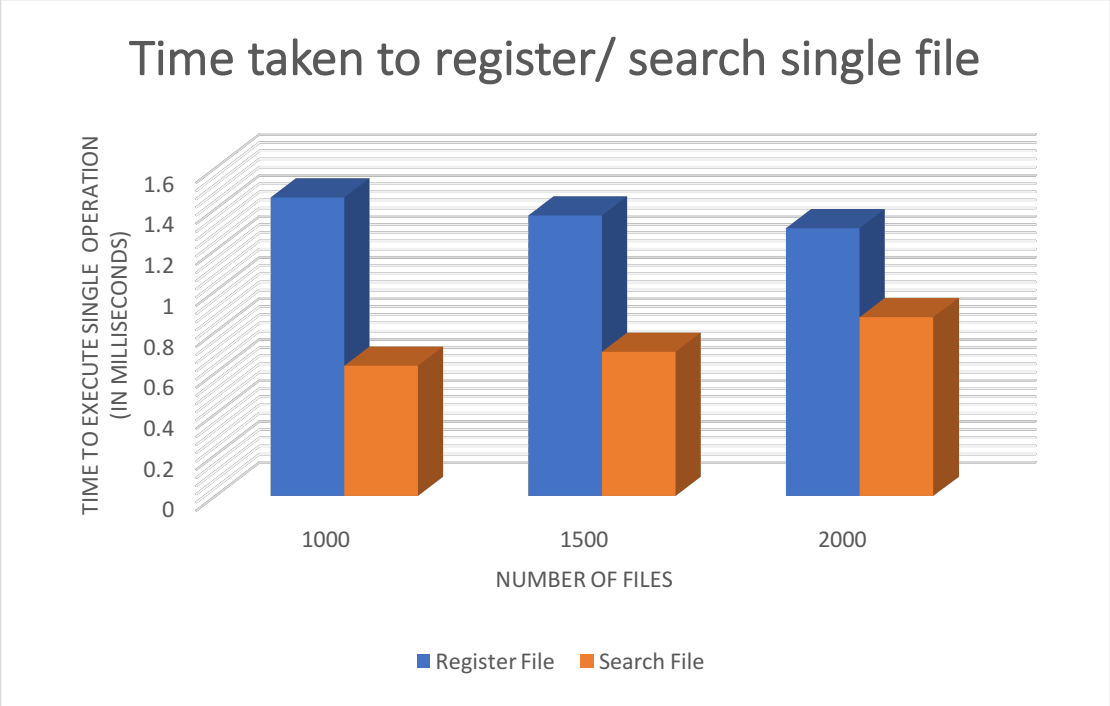
Test 3:

- 2000 register file requests
- 2000 search file requests

No of files	**Operation (Total time taken in ms)**		**Operation (Time to perform single operation in ms)**	
	Register	**Search**	**Register**	**Search**
1000	1456	635	1.456	0.635
1500	2053	1055	1.368	0.703
2000	2612	1745	1.306	0.872



From this chart, we can say that as total number of files increase, then total time to register or search file also increases.



From above chart, we can say that, as the number of files increases, then average time to register single file decreases whereas, average time to search file increases.

There is possibility of registering same file but from different node on the server, this might result into decrease in time for registering files. Whereas, as the number of indexes in the index server increases this results into increase in average time to search file.