

Query List:

1. About
2. Professor
3. Social Media
4. Comics
5. Search Engine
6. Hello World
7. Artificial Intelligence
8. Percy Jackson
9. Machine Learning
10. Nintendo Switch
11. Genshin Impact
12. Super Smash Bros
13. Man of Steel
14. Breath of the Wild
15. Apple Ipad Pro
16. To kill a mockingbird
17. Saturday night live
18. To be or not to be
19. The catcher in the Rye
20. Hello from the other side

Report:

The first 10 of the queries were working efficiently and the time was below 50 milliseconds. However after the first 10, it started going over the 300 milliseconds requirement and some were getting around 8-10 seconds. We realized that it would be more efficient to read smaller chunks of indices into memory and processing those rather than reading bigger chunks which take longer to read from the disk. After that change, all of the queries were found within 50 milliseconds.