

Report

AI20BTECH11006

Basic

The capture time mentioned in the table below are in seconds.

KEY	Req1	Req2	Req3	Average Time
AI3001	0.001949187	0.002077395	0.001787247	0.001937943
CS2323	0.002310445	0.001964167	0.003260357	0.002511656
CS3530	0.002531020	0.002429244	0.003229167	0.002729810
AI3000	0.002818826	0.002897156	0.001978965	0.002564982
EE2101	0.002111411	0.001281580	0.002029854	0.001807615
MA5060	0.001653418	0.001733652	0.001612990	0.001666687

Star

The capture time mentioned in the table below are in seconds.

KEY	Req1	Req2	Req3	Req4	Average Time
AI3001	0.005556722	0.001286424	0.001532173	0.002410899	0.0026965545
CS2323	0.004744943	0.001631702	0.001371357	0.001227822	0.002243956
CS3530	0.003514134	0.001868645	0.001384332	0.000823782	0.001897723
AI3000	0.002945720	0.000981322	0.001003324	0.000911419	0.001460446
EE2101	0.002912187	0.000886180	0.001008785	0.001370204	0.001544339
MA5060	0.003981917	0.000999006	0.001000429	0.000955874	0.001734307
AVG	0.0039426038	0.0012755465	0.0012167333	0.0012833333	0.00192955425

We observe a lot of difference between the first value and the subsequent values. The time taken for the first request takes nearly 3-4 times longer than the subsequent requests, this is because the cache server needs to first make connection with the main server, get the value corresponding to the given key, cache it and then send back to the client.

PLAGIARISM STATEMENT

I certify that this assignment/report is my own work, based on my personal study and/or research and that I have acknowledged all material and sources used in its preparation, whether they be books, articles, packages, datasets, reports, lecture notes, and any other kind of document, electronic or personal communication.

I also certify that this assignment/report has not previously been submitted for assessment/project in any other course lab, except where specific permission has been granted from all course instructors involved, or at any other time in this course, and that I have not copied in part or whole or otherwise plagiarized the work of other students and/or persons. I pledge to uphold the principles of honesty and responsibility at CSE@IITH. In addition, I understand my responsibility to report honor violations by other students if I become aware of it.

Name: Chirag Mehta

Date: OCT 12, 2022

Signature: [#]