Resource Based Assignment of Queries in Distributed Databases

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ABSTRACT

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1. INTRODUCTION

2. RELATED WORK

3. DESIGN

4. IMPLEMENTATION

5. EVALUATION

To evaluate our scheduling algorithm we are comparing the performance of Apache Cassandra (version 1.1.6) [3] with and without our scheduler. We have chosen to use Cassandra because it is an open-source key-value database with a large community and is used by several enterprise clients [2]. To evaluate the performance of each version of Cassandra we are using the Yahoo! Cloud Service Benchmark (YCSB) [1]. The remainder of this section will describe the experimental setup and the results of the experiments.

6. DISCUSSION

7. FUTURE WORK

8. CONCLUSION

9. REFERENCES

[1] B. F. Cooper, A. Silberstein, E. Tam, R. Ramakrishnan, and R. Sears. Benchmarking cloud serving systems with ycsb. In *Proceedings of the 1st ACM symposium on Cloud computing*, SoCC '10, pages 143–154, New York, NY, USA, 2010. ACM.

[2] J. Ellis. Apache cassandra. Slideshare, 2011.

[3] A. Lakshman and P. Malik. Cassandra: a decentralized structured storage system. *SIGOPS Oper. Syst. Rev.*, 44(2):35–40, Apr. 2010.