Reconfigurable Leaderless Atomic Transaction Commit*

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ABSTRACT

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PVLDB Artifact Availability:
The source code, data, and/or other artifacts have been made available at URL_TO_YOUR_ARTIFACTS.

1 INTRODUCTION

Distributed Transactions.

Atomic Commit Problem and TCS.

Leaderless TCS

Our Contributions.

- Paxos for replication: leaderless (EPaxos, Atlas, Tempo), generalized Paxos; utilizing commutativity
- 2PC for ACP over shards: pre-commit (Google Percolator; TiDB); one-round trip optimization
- Reconfig: matchmarker Paxos

2 PRELIMINARIES

3 RELATED WORK

Atomic Commit Problem.

Leaderless Consensus.

Transaction Certification Service (TCS).

Reconfiguration.

4 CONCLUSION

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