

Reconfigurable Leaderless Atomic Transaction Commit*

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ABSTRACT

PVLDB Reference Format:

Jiang Xiao, Hengfeng Wei*, Yu Huang, . . . , and Reconfigurable
Leaderless Atomic Transaction Commit. PVLDB, 14(1): XXX-XXX, 2020.
doi:XX.XX/XXX.XX

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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Proceedings of the VLDB Endowment, Vol. 14, No. 1 ISSN 2150-8097.
doi:XX.XX/XXX.XX