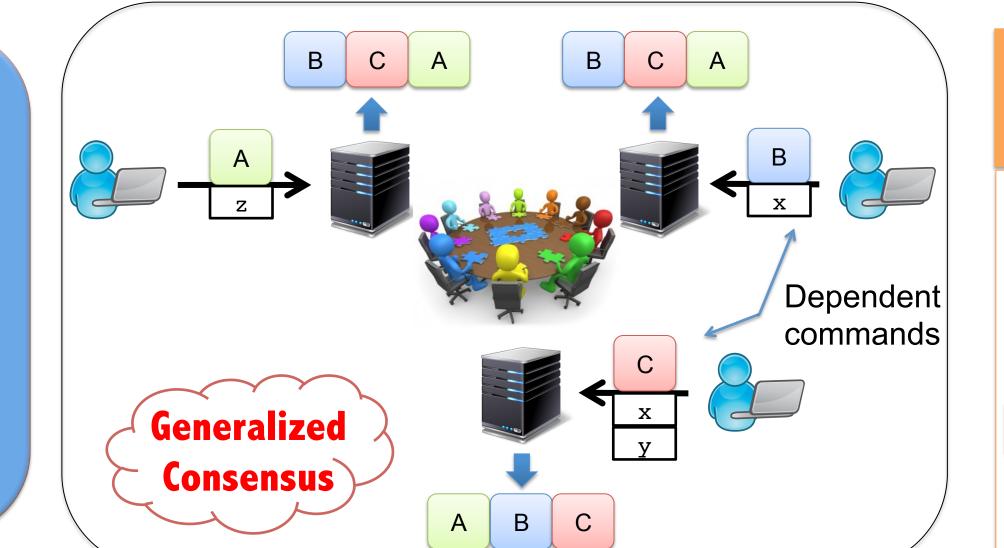


The Problem of Generalized Consensus

Generalized Consensus

Proposers submit commands Acceptors agree on accepting equivalent sequences of commands

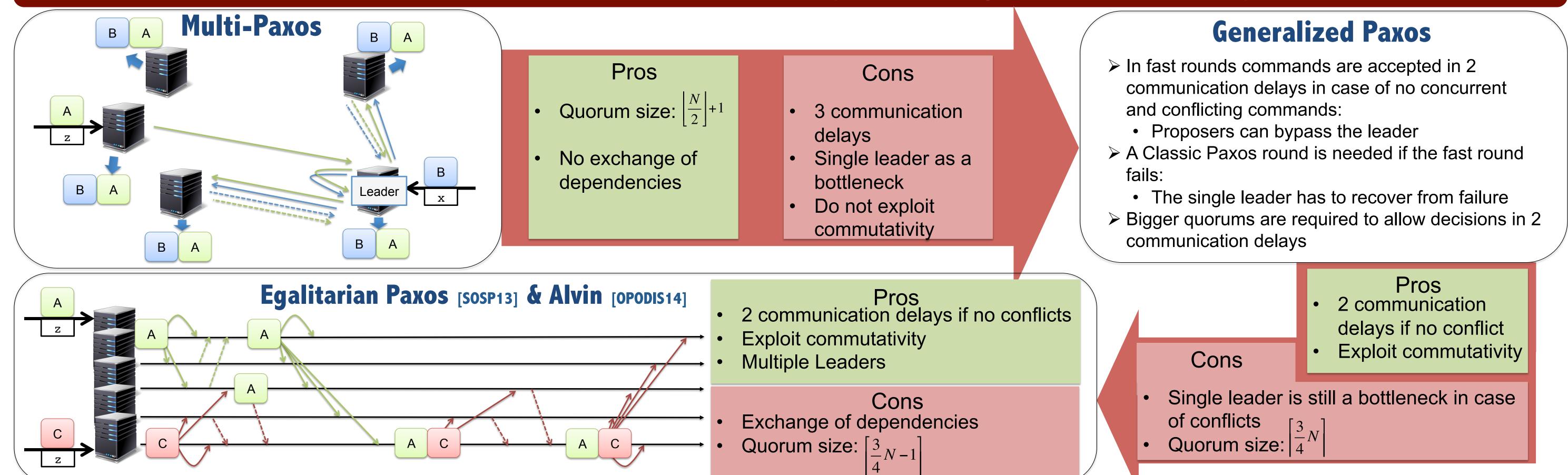


Our Challenge

Jointly ensuring the following features:

Avoiding a designated leader Accepting commands in 2 communication delays (with high probability) > Relying on the minimal quorum size of $\left|\frac{N}{2}\right|^{+1}$, where the maximum number of faulty nodes is $\left|\frac{N}{2}\right|$ >Avoiding the exchange of command dependencies

From 3 to 2 Communications Delays - Single vs. Multiple Leaders

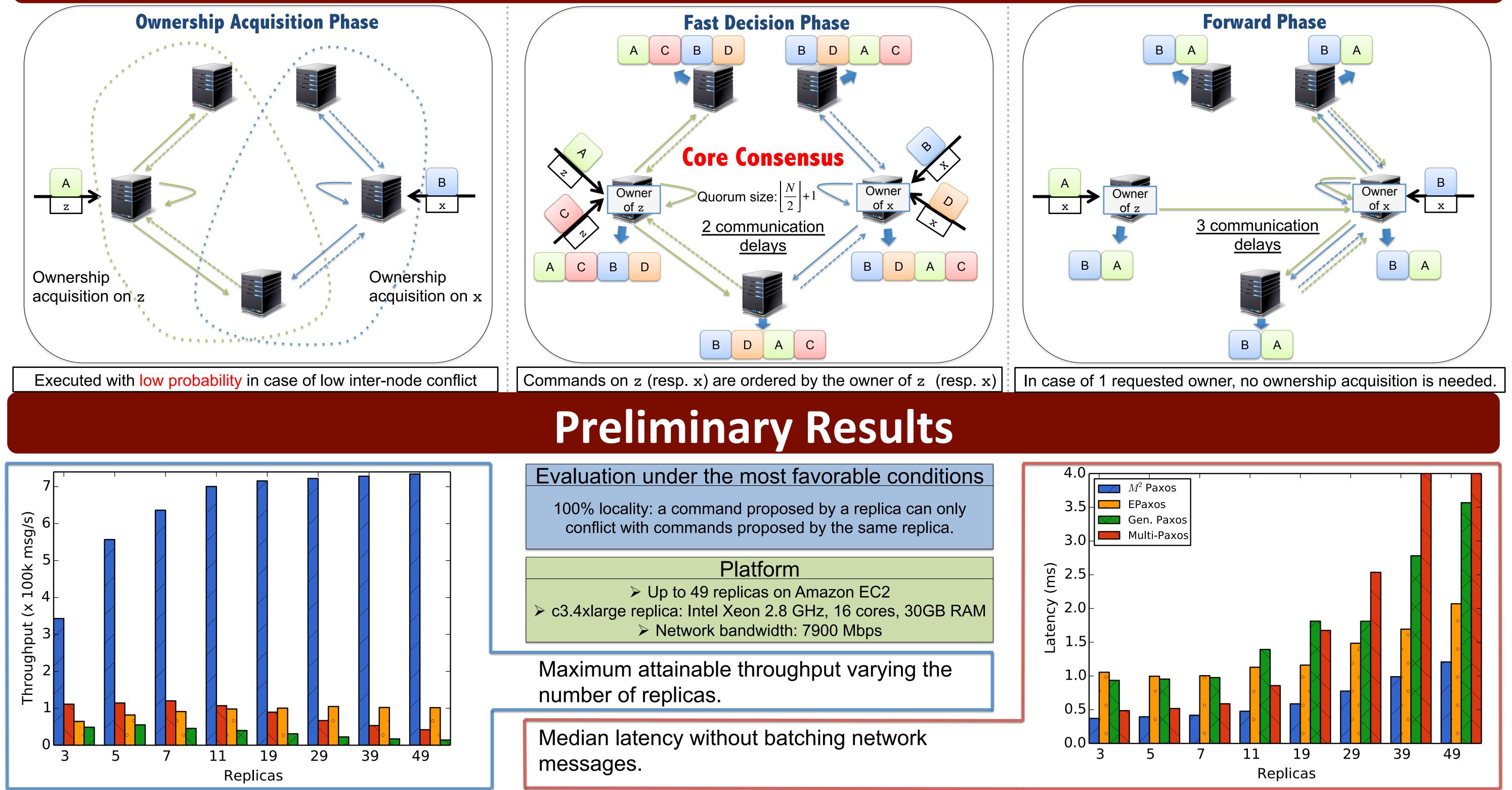




Generalized Consensus is worth in case of locality, i.e., low inter-node contention.



Our Contribution: M²**Paxos**



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