Memory
Memory

Storage

Persistent Memory
How to Turn Data Updates Into Permanent Records?
How to Turn Data Updates Into Permanent Records?

*Previous: With “Log”*

Leave original data intact
How to Turn Data Updates Into Permanent Records?

Previous: With “Log”
Leave original data intact

Our Design: “Kiln”
Directly overwrite original data
How to Turn Data Updates Into Permanent Records?

Previous: With “Log”

Our Design: “Kiln”

3x speedup across 6 benchmarks

Leave original data intact

Directly overwrite original data
Closing the Performance Gap Between Systems With and Without Persistence Support

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Sheng Li
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HP Labs
IBM Research
Penn State/AMD Research
Google

Poster Session: Tue (Dec.10) 2 – 3PM
Presentation: Wed (Dec. 11) 9:45AM
Session 6B
(Alpha Gamma Rho Room)