





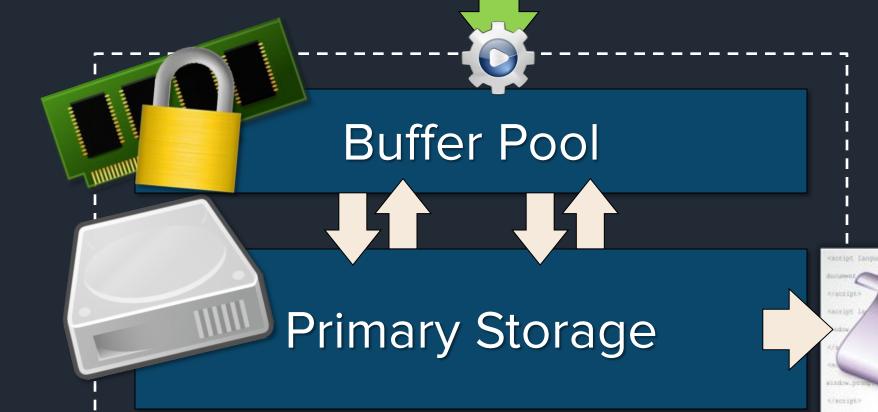


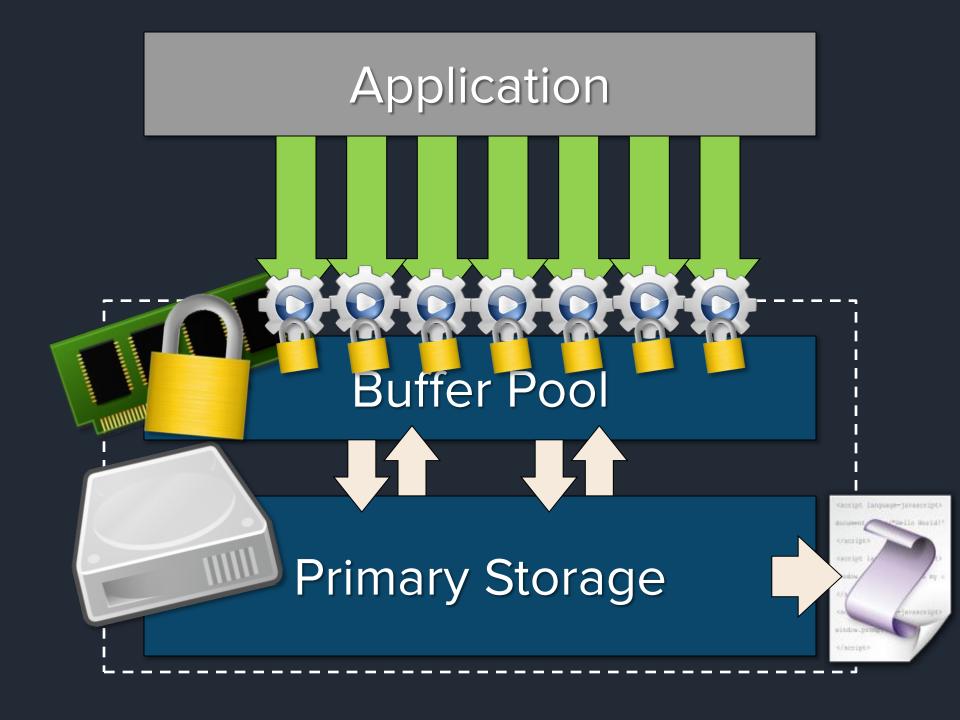


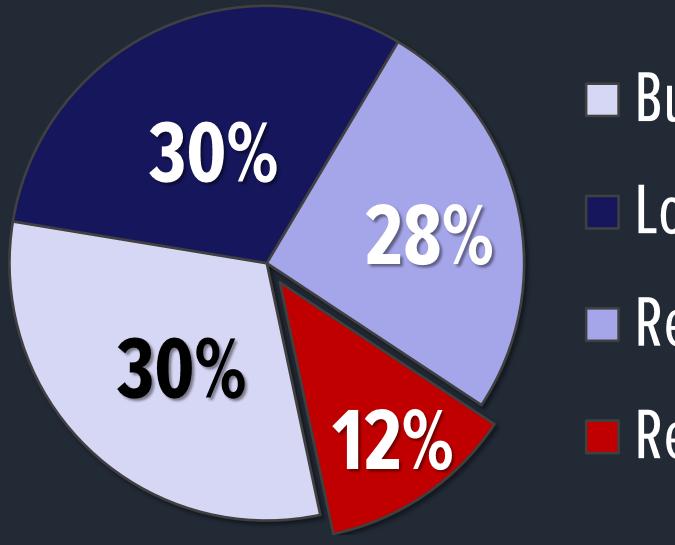




Application







Buffer Pool

Locking

Recovery

Real Work

OLTP Through the Looking Glass, and What We Found There SIGMOD '08, pp. 981-992, 2008.



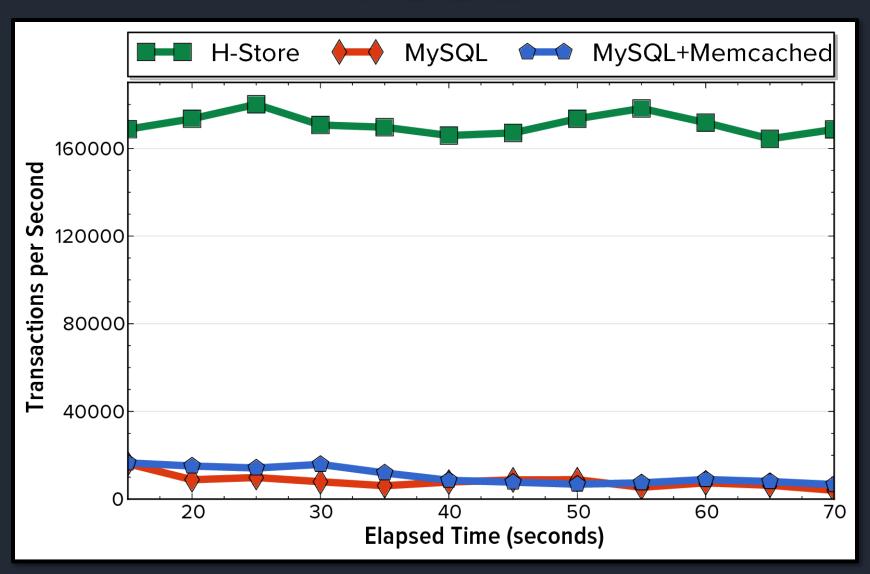
H-Store

Parallel Main Memory Transaction Processing System

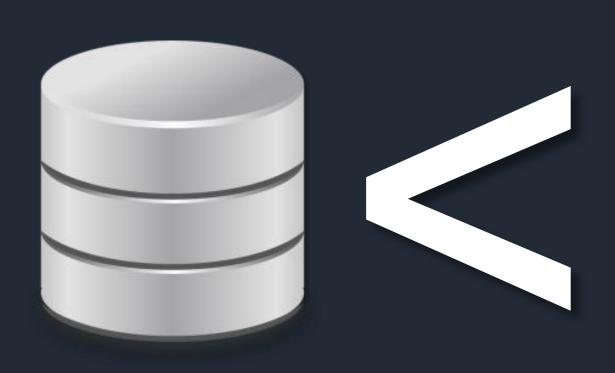
H-Store: A High-Performance, Distributed Main Memory Transaction Processing System *Proc. VLDB Endow., vol. 1, iss. 2, pp. 1496-1499, 2008.*

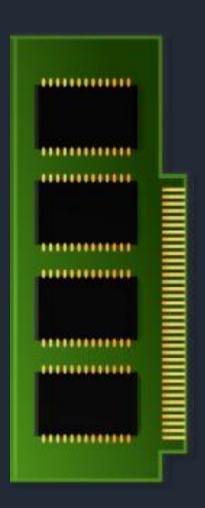


YCSB



50% Reads / 50% Writes





Anti-Caching: A New Approach to Database Management System Architecture *In Preparation*.



Anti-Caching



Andy **Pavlo**



Justin **DeBrabant**



Stephen **T**u



"The Thrill" **Stonebraker**



Stan **Zdonik**









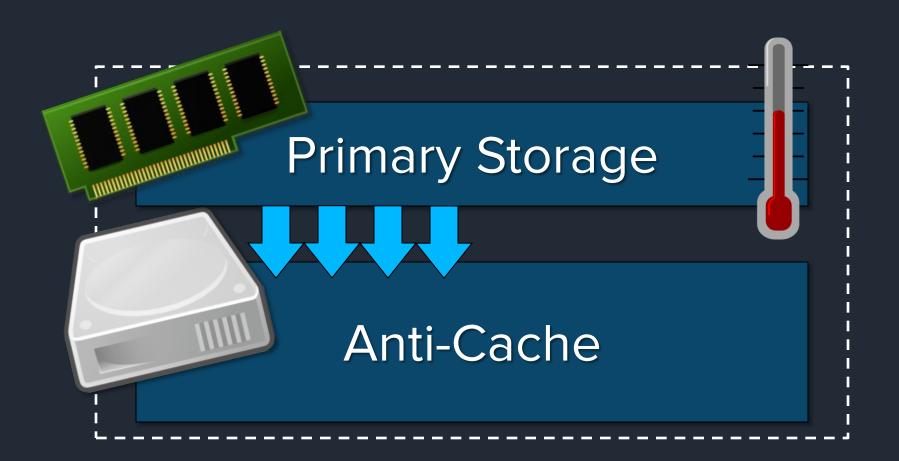








Application

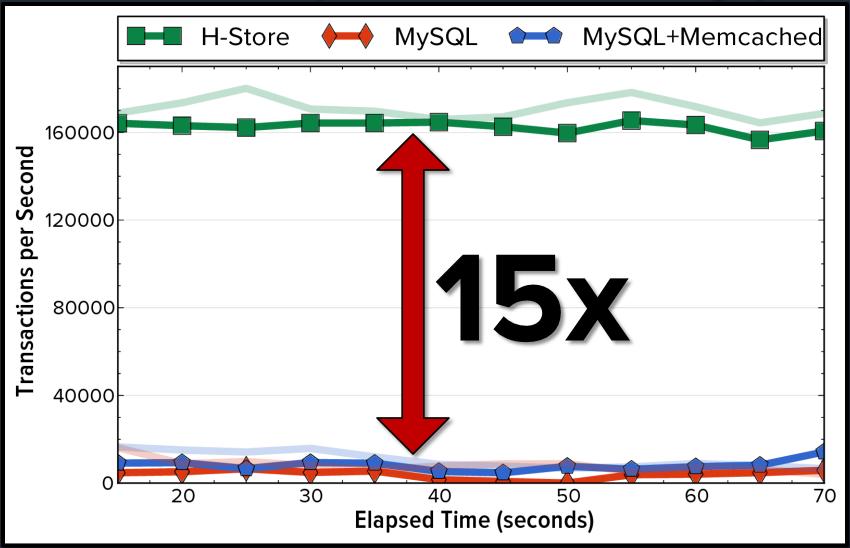


Application

Primary Storage

Anti-Cache

YCSB (2x Memory)

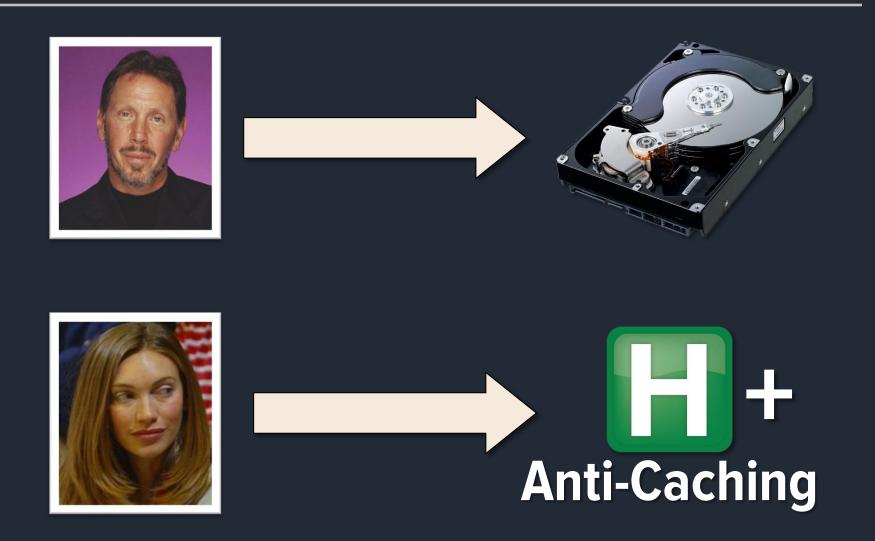


50% Reads / 50% Writes

Future Work:

- Large-than-memory queries.
- Eviction Strategies.
- Block Reorganization.

Conclusion:



H-Store hstore.cs.brown.edu @andy_pavlo