

Errata Slip

revised 3/29/14

In the paper “Warranties for Faster Strong Consistency” by Jed Liu, Tom Magrino, Owen Arden, Michael D. George, and Andrew C. Myers, Cornell University (Friday session, “New Programming Abstractions,” pp. 503-517 of the Proceedings)

Page 514, Related Work

Delete sentence: Memoized results are not shared across clients.

Original Text:

The TxCache system [45] provides a simple abstraction for caching and reusing results of functions operating over persistent data from a single storage node in a distributed system. As with the Fabric implementation of computation warranties, functions may be marked for memoization. TxCache does not ensure that memoized calls have no side effects, so memoized calls may not behave like real calls. Memoized results are not shared across clients. Compared to Fabric, TxCache provides a weaker consistency guarantee, transactional consistency, requiring that all transactions operate over data that is consistent with a prior snapshot of the system.

Corrected Text:

The TxCache system [45] provides a simple abstraction for sharing cached results of functions operating over persistent data from a single storage node in a distributed system. As with the Fabric implementation of computation warranties, functions may be marked for memoization. TxCache does not ensure that memoized calls have no side effects, so memoized calls may not behave like real calls. Compared to Fabric, TxCache provides a weaker consistency guarantee, transactional consistency, requiring that all transactions operate over data that is consistent with a prior snapshot of the system.