Accepted Manuscript

Causal consistency algorithms for partially replicated and fully replicated systems

Ta-Yuan Hsu, Ajay D. Kshemkalyani, Min Shen

PII: S0167-739X(17)30816-6
DOI: http://dx.doi.org/10.1016/j.future.2017.04.044
Reference: FUTURE 3446

To appear in: *Future Generation Computer Systems*

Received date : 23 November 2016
Revised date : 12 April 2017
Accepted date : 29 April 2017

Please cite this article as: T. Hsu, et al., Causal consistency algorithms for partially replicated and fully replicated systems, *Future Generation Computer Systems* (2017), http://dx.doi.org/10.1016/j.future.2017.04.044

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

***Highlights (for review)**

1. Causal consistency gives low latency and strong semantics in replicated systems.
2. We explore partial and full replication to implement causal consistency.
3. We propose causal consistency algorithms for partially and fully replicated systems.
4. Simulations show the efficacy of our algorithms in lowering meta-data overhead.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/6873070

Download Persian Version:

https://daneshyari.com/article/6873070

Daneshyari.com