Annotated Bibliography on Causal Consistency

Hengfeng Wei

hfwei@nju.edu.cn

1 Specification

Ahamad, M., Neiger, G., Burns, J. E., Kohli, P., and Hutto, P. W. Causal memory: Definitions, implementation, and programming. *Distributed Computing 9*, 1 (1995), 37–49

The original definition of causal memory with respect to read-write registers. It also contains a classic implementation using vector clocks, which is, however, not fault-tolerant.

Perrin, M., Mostefaoui, A., and Jard, C. Causal consistency: Beyond memory. In *Proceedings of the 21st ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming (PPoPP '2016)* (2016), 26:1–26:12

This paper discusses three variants of causal consistency, namely . . ..

2 Theory

3 Protocols (and Clocks)

4 Systems

5 Checking

6 Verification