Advanced Operating Systems: List of Papers

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Theoretical Foundations

Scalar clock paper by Lamport [20], vector clock paper by Mattern [22], causal ordering paper by Raynal and Schiper [26], the distributed snapshot paper by Chandy and Lamport [5].

Physical Clock Synchronization

Papers by Cristian [7], Gusella and Zatti [16] and Srikanth and Toueg [31]

Mutual Exclusion

Algorithms by Lamport [20], Ricart and Agrawala [28] with the optimization by Carvalho and Roucairol [3], Maekawa [21], and Raymond [25].

Crash and Recovery

Paper by Skeen and Stonebraker discussing crash failures and two-phase commit protocol and its extensions [30], Koo and Toueg [19].

Agreement

The survey paper by Michael Fischer [11] and the Practical Byzantine Fault Tolerance paper by Castro and Liskov [4].

Consistency and Voting

Papers by Davidson et al. [8], Gifford [14] and Jajodia and Mutchler [18].

Managing Large Distributed Data Clusters

Papers on the Google file system [13], Dynamo from Amazon [10].

CAP Theorem

PODC 2002 paper by Gilbert and Lynch [15].

Distributed Shared Memory

The ISCA '94 by Reinhardt et al. [27].

Distributed Scheduling

The SOSP 2009 paper by Isard et al. [17].

Software Transactional Memory

Paper by Shavit and Touitou [29].

Additional Papers (as time permits)

MapReduce [9], Bigtable [6], failure trends in large disk drive population [24], patch-based file system [12], Sinfonia from HP Labs and Vmware [1], VirtualPower [23], Fast Array of Wimpy Nodes [2], blockchain related survey by Vukoli'c [32].

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