

Distributed Systems Part II:

Distributed Applications and Data Management

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SS 2015

Outline

- (7) Introduction
- (8) Distributed Systems Architectures
- (9) Reliability and Coordination
- (10) Concurrency Control for Strong Consistency
- (11) Relaxed Consistency Models
- (12) Case Studies of Distributed DBMS

Organization

- Time and location:
 - Course: Tuesday, 14:15 - 16:00, Room 101-00-010/014
Thursday, 14:15 - 16:00, Room 101-00-010/014, bi-weekly.
 - Exercises: mostly on Thursday, 14:15 - 16:00, Room 101-00-010/014, alternating with the lecture.
 - First exercise: Tuesday(!), June 30th
- Final examination is oral for B.Sc. and M.Sc.
- Exam slots end in the week September 14 to 18th
- For participation at the exam registration at the Prüfungsamt is mandatory - there are no further prerequisites.

All material about lectures and exercises can be found at the web page for Part 1 of the course!

Literature:

- G. Weikum, G. Vossen. *Transactional Information Systems*. Morgan Kaufmann, 2002.
- P. Bernstein, V. Hadzilacos and N. Goodman. *Concurrency Control and Recovery in Database Systems*. Addison Wesley, 1987. Download:
<http://research.microsoft.com/en-us/people/philbe/ccontrol.aspx>
- M.T. Özsu, P. Valduriez. *Principles of Distributed Database Systems*. Springer Verlag, 2001, 3Ed.