

Distributed Data Management

Sheet 2 (until 26.04.2010)

Due to the delay of the exercise sheet, submission deadline is the 26th April.

Exercise 1 (5 points)

Please answer briefly.

1. Which sharing architectures are usually used in DDBMS? What does distinguish them?(3P)
2. Which sharing architecture uses OceanStore? (<http://oceanstore.cs.berkeley.edu/>) (2P)

Exercise 1 (13 points)

Please answer briefly.

1. Briefly define partitioning, fragmentation, and allocation. (3P)
2. When partitioning, what does it mean if the Completeness Rule is violated? (2P)
3. Why is the Disjointness Rule important? (2P)
4. When deciding for a good fragmentation and allocation, which criteria should be optimized? (3P)
5. What are the disadvantages and advantages of replication?
Is it a good idea to use full replication? If yes, in which cases? (3P)