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Carnegie Mellon Univ. Dept. of Computer Science 15-415/615 - DB Applications

C. Faloutsos – A. Pavlo Lecture#21: Concurrency Control (R&G ch. 17)









(*) no matter what the arithmetic operations are! Faloutsos/Pavlo CMU SCS 15-415/615



- **Serializable Schedule:** A schedule that is *equivalent* to some serial execution of the transactions.
- Note: If each transaction preserves consistency, every serializable schedule preserves consistency.

Faloutsos/Pavlo

6





































































































































































Faloutsos/Paylo

Performance Problems

- Executing more txns can increase the throughput.
- But there is a tipping point where adding more txns actually makes performance worse.

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