

Distributed Databases

CS347

Lecture 16

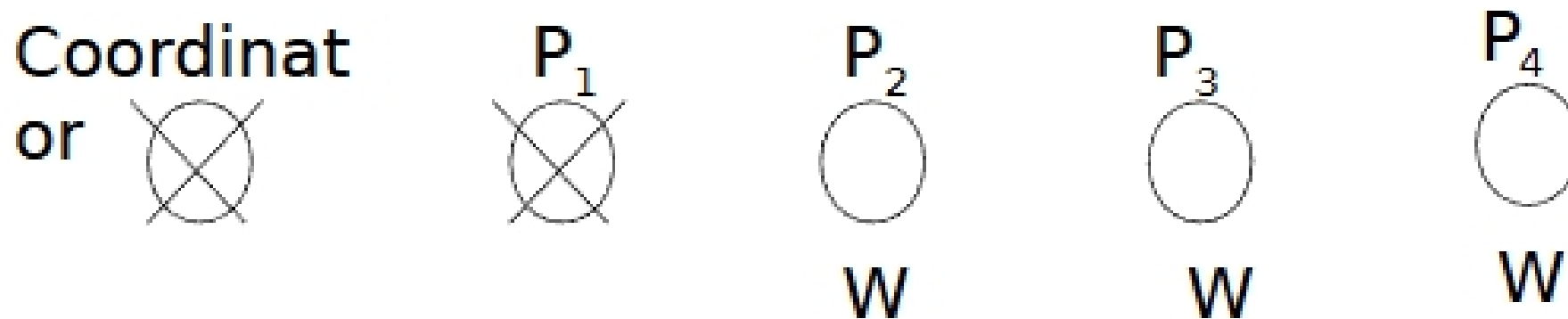
June 6, 2001

Topics for the day

- **Reliability**
 - Three-phase commit (3PC)
 - Majority 3PC

- **Network partitions**
 - Committing with partitions
 - Concurrency control with partitions

Recall - 2PC is blocking



Case I: P1 → "W"; coordinator sent commits

P1 → "C"

Case II: P1 → NOK; P1 → A

⇒ P2, P3, P4 (surviving participants) cannot safely abort

or commit transaction