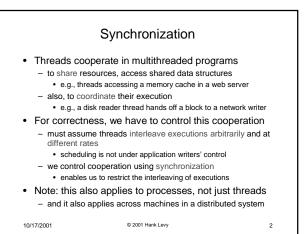
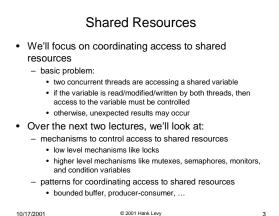
CSE 451: Operating Systems Winter 2001

Lecture 7

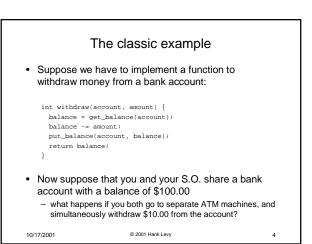
Synchronization

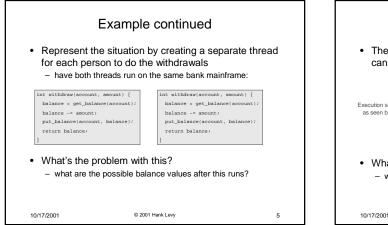
Hank Levy Levy@cs.washington.edu 412 Sieg Hall

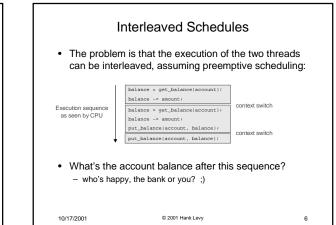


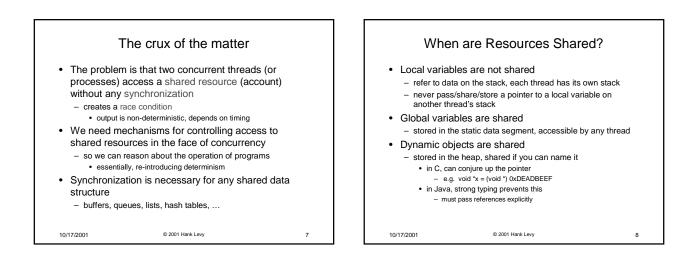


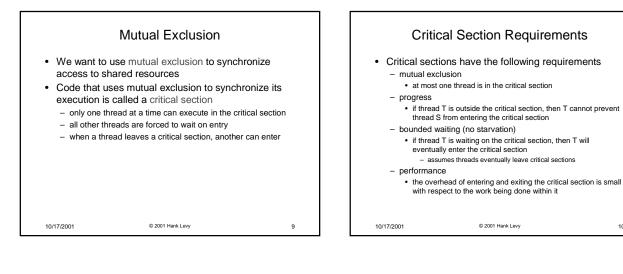












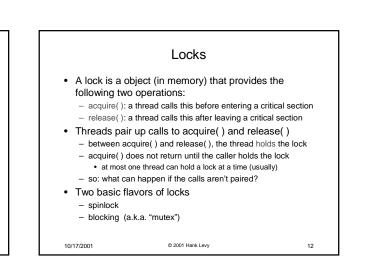
Mechanisms for Building Crit. Sections

- Locks
- very primitive, minimal semantics; used to build others · Semaphores
 - basic, easy to get the hang of, hard to program with
- Monitors
 - high level, requires language support, implicit operations
- easy to program with; Java "synchronized()" as example Messages
- - simple model of communication and synchronization based on (atomic) transfer of data across a channel
 - direct application to distributed systems _

10/17/2001

© 2001 Hank Levv

11



10

