



















Approach 2: Detection and Recovery

• Need a method to determine if a system is deadlocked.

14

• Assuming deadlocked is detected, we need a method of recovery to restore progress to the system.

THE UNIVERSITY OF NEW SOUTH WALES







































THE UNIVERSITY OF NEW SOUTH WALES





















Attacking the Hold and Wait Condition

- · Require processes to request resources before starting - a process never has to wait for what it needs
- Issues
 - may not know required resources at start of run
 - ⇒ not always possible
 - also ties up resources other processes could be using
- Variations:
 - process must give up all resources if it would block hold a resource
 - then request all immediately needed - prone to starvation
- THE UNIVERSITY OF NEW SOUTH WALES

47









