

CSE 531: Distributed and Multiprocessor Operating Systems

Fall 2017

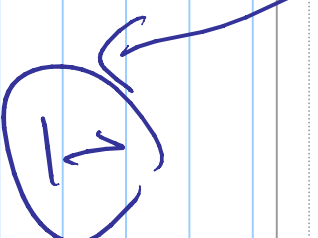
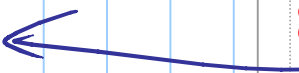
Note Title

Class:

01

Date:

8/17



→ Multicore

Shared memory

- Multicore

- Distribution

- Theory

Prerequisites

- Operating Systems
 - Interrupt handling
 - System calls
 - protection

- Scheduling (CPU)

✓ - round robin (time slicing)

✓ - context switching

✓ concurrency (shared memory)

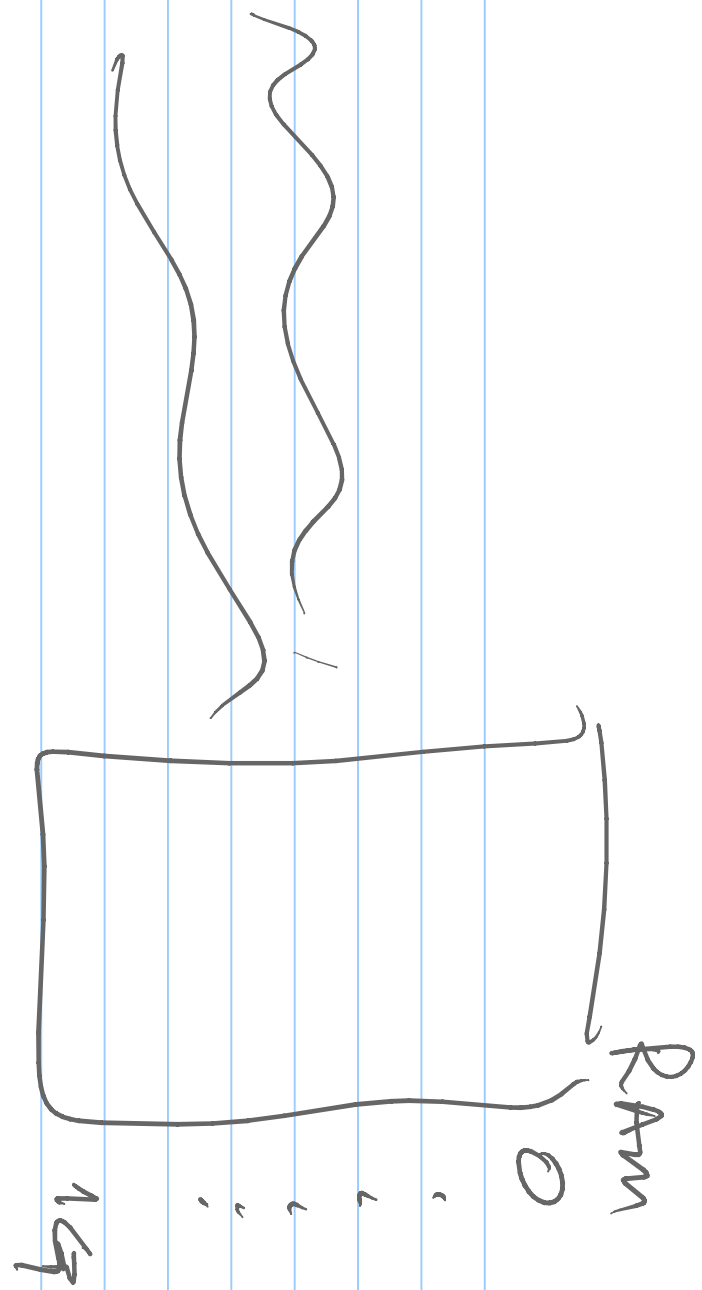
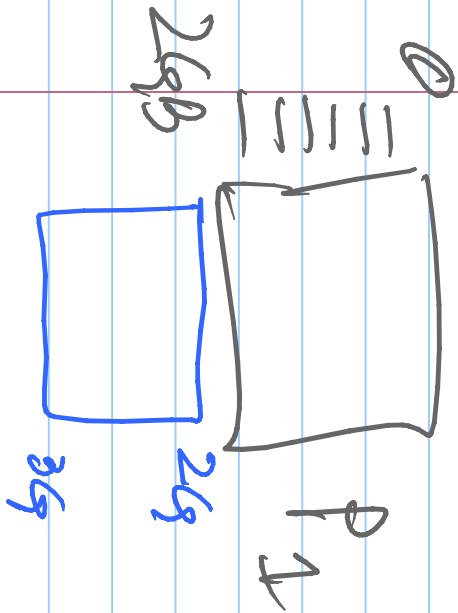
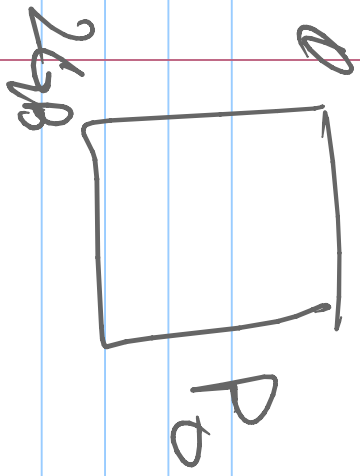
↳ locking

→ semaphores

→ synchronization

Memory Management

- virtual memory
- private & shared mem
- address spaces
- "translation

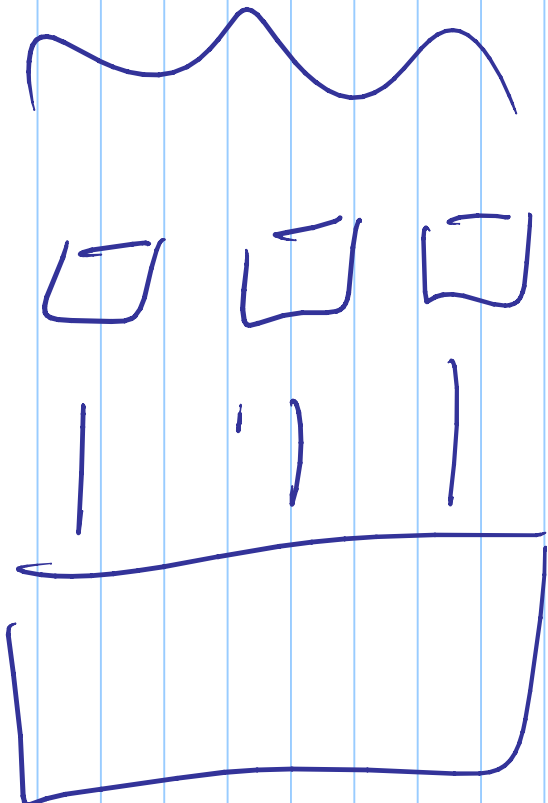


32628

- File Systems

- Device Management & Scheduling

Unicode



Physical memory (RAM)

'Symmetric'

SNMP

UMA

Uniprocessor

Multi processor

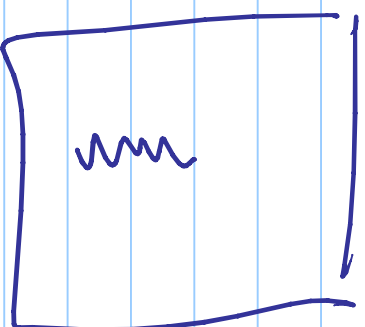
Concurrency

Concurrency
↳ Parallelism

locking is different

Threads

Processes



Addr

Distributed → no shared mem

→ every process is isolated

