

Midterm Topics

- Chapter 1
 - What is an OS?
 - Monolithic vs. Microkernel architectures
 - Virtual Machines
- Chapter 2
 - Processes
 - Creation
 - Termination
 - Context/Context Switches

Midterm Topics (2)

- Chapter 2 (cont')
 - Process Table
 - Process States
 - Threads
 - User vs. Kernel Threads
 - Scheduling
 - IPC
 - Race Conditions

Midterm Topics (3)

- Chapter 2 (cont')
 - Critical Regions
 - Mutual Exclusion
 - Semaphores & Mutexes
 - Monitors and Barriers
 - Classical IPC Problems
 - Producer/Consumer
 - Sleeping Barber

Midterm Topics (4)

- Chapter
 - Deadlocks
 - 4 Conditions
 - Modeling
 - Detection and Recovery
 - Deadlock Avoidance
 - Banker's Algorithm
 - Deadlock Prevention
 - Spooling, Global numbering, etc.

Midterm Topics (5)

- Chapter
 - Memory Management
 - Fixed partitions
 - Degree of Multiprogramming
 - Relocation and Protection
 - Swapping
 - Memory Management
 - Bitmaps
 - Linked Lists

Midterm Topics (6)

- Chapter (cont')
 - Virtual Memory
 - Paging
 - Page Tables
 - Single level ...