

EECS 111: System Software

Lecture 8

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Lecture 8 Overview

- Course Administration
 - Assignment 2: Solution
- CPU Scheduling
 - Scheduling Algorithms
 - Thread Scheduling
 - Multiple-Processor Scheduling
 - Algorithm Evaluation

Assignment 2

- Discussion
 - Process creation, Context switch
- Project
 - Parallel Processes, Inter-Process Communication
 - Program `fib2` to compute Fibonacci numbers
 - Create two parallel child processes
 - Child 1 computes Fibonacci(n-1)
 - Child 2 computes Fibonacci(n-2)
 - Parent waits for children and combines results
 - Communication via POSIX shared memory
 - Analyze and compare execution times
 - Due
 - Tuesday, April 20, 2010, 12:00pm (noon)

CPU Scheduling

- *“Operating System Concepts”, 8th Edition,* by A. Silberschatz, P. B. Galvin, G. Gagne, John Wiley & Sons, 2009.
- Chapter 5
 - Scheduling Algorithms
 - Thread Scheduling
 - Multiple-Processor Scheduling
 - Algorithm Evaluation