EECS 111: System Software
Lecture 6

Rainer Dömer

doemer@uci.edu

The Henry Samueli School of Engineering
Electrical Engineering and Computer Science
University of California, Irvine

Lecture 6 Overview

- Course Administration
  - Assignment 2
- Threads
  - Multithreading Models
  - Thread Libraries
  - Threading Issues

Assignment 2

- Discussion
  - Process creation, Context switch
- Project
  - Parallel Processes, Inter-Process Communication
    - Program **`fibo2`** 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)

Threads

- *"Operating System Concepts", 8th Edition,* by A. Silberschatz, P. B. Galvin, G. Gagne, John Wiley & Sons, 2009.
- Chapter 4
  - Multithreading Models
  - Thread Libraries
  - Threading Issues