EECS 111: System Software
Lecture 12

Rainer Dömer

doemer@uci.edu

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

Lecture 12 Overview

- Course Review
  - Midterm exam results
  - Assignment 4: Solution
- Course Administration
  - Midterm course evaluation

Midterm Exam Results

- Overall mixed results
  - Some show clear understanding
  - Some make “simple” mistakes
  - Synchronization appears to be a harder topic…
- MidtermExam_Solution.pdf
  - Discussion…

Assignment 4

- Discussion
  - Synchronization primitives, Application problems
- Project
  - Producer Consumer Problem, Mutex, Condition Variables
    - Program **`prodcons2.c`** based on Assignment 3
    - Fully utilize the buffer size in bounded buffer
      - Use up to BUFFER_SIZE items with help of counter
      - See Version 2 discussed in Lecture 9
    - Implement proper synchronization using Pthreads API
      - Eliminate race condition
      - Eliminate busy waiting
    - Analyze and compare execution time, CPU load
  - Due
    - Tuesday, May 11, 2010, 12:00pm (noon)

Course Administration

- Midterm Course Evaluation
  - One week, starting today!
  - Tuesday, May 11, 9am – Tuesday, May 18, noon
  - Online via EEE Evaluation application
- Feedback from students to instructors
  - Completely voluntary
  - Completely anonymous
  - Very valuable
    - Help to improve this class!
- Mandatory Final Course Evaluation
  - expected for week 10 (TBA)