CIS 415
Operating Systems
Midterm Review

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Fall 2014
Logistics

- Midterm on Thursday, November 6
  - Closed book
  - No computers
- Answers to Assignments 1 and 2 on webpage
What did we cover so far?

- Operating systems structure
  - OSC, Chapter 2.1-2.7, 18.1-18.3

- Processes
  - OSC, Chapter 3.1-3.6, 17.4.1-2, 18.4, 18

- Threads
  - OSC, Chapter 4

- Process synchronization
  - OSC, Chapter 5.1-5.9

- CPU scheduling
  - OSC, Chapter 6.1-6.8, 18.5.1-4

- Deadlock
  - OSC, Chapter 7.1-7.7

- Main memory
  - OSC, Chapter 8.1-8.6
What to expect on the midterm?

- 80 minute exam
- Structure
  - 3-4 parts
  - Each part will have:
    - 3-5 short answers
    - 1-2 problems
  - At least 40% of the grade will be on short answer questions
- All areas covered are fair game
  - Especially for short answer questions
- Likely will have problems on:
  - Synchronization
  - Scheduling
  - Resource allocation and deadlock
  - Memory management
Study Advice

- Read book
- Review lectures
  - Please DO NOT print lecture slides – save the forest!
- Review assignments
- Think about concepts
Project 2 – Publish / Subscriber Server

Publishers

Publisher “proxies”

P_{i} \quad \ldots \quad P_{n}

Publisher “proxies”

T_{p_{i}} \quad \ldots \quad T_{p_{n}}

Topics Archive

Topics Store
- in memory
- synchronized

Subscribers

S_{1} \quad \ldots \quad S_{m}

Subscriber “proxies”

T_{s_{1}} \quad \ldots \quad T_{s_{m}}

DuckInterest

1. connect

2. \quad \ldots

3. \quad \ldots
Next Class

- Midterm