

Midterm 1

EECS 370 – Introduction to Computer Organization – Winter 2009

Prof. Todd Austin & Prof. Marios Papaefthymiou

EECS Department
University of Michigan, Ann Arbor, USA

© Austin & Papaefthymiou, 2009

The material in this presentation cannot be
copied in any form without our written permission

Announcements

- ❑ Midterm Exam 1
 - Thursday 2/19
- ❑ Office hours this week
 - Tuesday 2/17: Marios 10:30am-noon, Shobana 2-4pm, Prakit 4-6pm
 - Wednesday 2/18: Shobana 3:30-6:30pm, Paul 3:30-4:30pm
- ❑ Nth Annual Programming Contest
 - Make your recursive program in Project 2 run as fast as possible
 - Due date: Same as Project 2 (Fri 3/6)
 - No special submission required; the autograder keeps track of everything
 - 1st prize: Pizza-size cookie

Exam Logistics

- ❑ Thu 11/20, 9-10:30am, EECS 1311
- ❑ Thu 11/20, 12-1:30pm, CSE 1670
- ❑ Take the exam at the time of the lecture you are registered for
- ❑ Be at the exam room by 9am / 12pm
- ❑ Alternate seating required; overflow rooms will be used
- ❑ The deal:
 - Open books, notes
 - No PDAs, laptops, cell phones,...
 - Calculators OK

Exam Topics

- ❑ Covers material in Lectures 1-10
 - ISA (addressing modes, design, etc.)
 - Assembly programming (compilation, machine language, etc.)
 - Functions (stacks, call conventions, caller/callee save, etc.)
 - Floating point numbers
 - Digital logic
 - FSMs
 - Single-cycle datapath
- ❑ Our timeless favorites (of course, we may come up with new ones)
 - LC2K/MIPS code: understand and use
 - New ISA: understand and use
 - Design logic, FSMs, datapaths
 - Buggy datapaths
 - Modify datapath to support a new instruction
 - Modify datapath to improve performance