EE482 Advanced Computer Architecture and Organization
Course Policy and Information

Room: Gates B03
Tuesday/Thursday 4:15 to 5:30

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Hours: T/Th 5:30 to 6:15 except as announced

TA: Li-Shiuan Peh
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Web: http://www.stanford.edu/class/ee482

Goal
This year EE482 will address topics in interconnection network architecture and design including network topology, routing strategies, flow control methods, deadlock and deadlock avoidance, congestion control, and router architecture. We will examine applications of networks to parallel computer interconnect, main-memory interconnect in multiprocessors, and switching fabric in internet routers.

Assignments
There will be three homework assignments, a project, and a research paper. The homework assignments will cover the basics of interconnection networks. The project involves designing an interconnection network given a set of constraints and requirements and implementing the design to the level of behavioral Verilog. For the research paper you will be asked to investigate a current topic in interconnection networks, write a short paper on the topic, and present your results to the class.

Late Assignments
Homework is due at the beginning of class on the due date. There will be no credit given for late homework assignments. Local SITN students must turn in their assignments at the same time as on-campus students. Remote SITN students must turn in their assignments no later than one week after the on-campus due date.

Collaboration
Collaboration on homework assignments is encouraged subject to the following guidelines:
1. No more than four people can collaborate on a homework solution.
2. Groups of people working together should submit a single homework solution for the group.
3. Any assistance received in the solution of a homework assignment should be acknowledged in writing on the homework assignment.

Exams
There will be a Midterm exam held during the normal class time on May 4. The midterm will cover material up through that presented on April 27. There will be no final exam. Local TV students must come to Stanford to take the Midterm. Please plan to attend the midterm and organize your schedule accordingly. Alternative exam times will be made available only under extreme circumstances. Remote SITN students must observe the time limits for the midterm and final and must submit their completed exams no later than one week after the on-campus exam. No credit will be given for late exams.

Requests to re-grade exams must be submitted in writing within one week of the exam date. An exam submitted for re-grading may have all questions re-graded, not just the one requested.

Grading
- Homework Assignments 15%
- Midterm 20%
- Project 35%
- Research Paper 20%
- Class Participation 10%

Text

Prerequisites
EE271, EE282, EE382, and permission of the instructor.