CPE 731: Advanced Computer Architecture

Research Report and Presentation

Purpose

- Select an active research topic in computer architecture.
- Example topics: speculative execution, multithreading, multi-core, memory hierarchy, lowpower processors, storage systems, high-rate input/output, etc.
- Survey original and recent research papers.
- Describe **basic** ideas and **state-of-the-art** solutions.
- Give conclusions and expected future directions.

General

• Marks: 30%

Report 15%

Presentation 15%

Timing

– After midterm: Submit proposal

– Last week: Submit report and present

project

Research Proposal

- Two-page proposal
- Specify research topic
- Specify important references
- Structure
 - Title
 - Student name
 - History
 - Motivation
 - Recent developments
 - References

Research Report

- 6 to 12-page report
- Use IEEE A4 conference template at

http://www.ieee.org/conferences events/conferences/publis hing/templates.html

- Structure
 - Title and student name
 - Abstract
 - Introduction
 - Literature survey
 - Sections to describe and evaluate recent solutions
 - Conclusions and future directions
 - References

Research Presentation

- Prepare Power Point slides
- Ten to fifteen minutes
- Must be clear and useful presentation, must add knowledge to fellow colleagues.