

Final Research Project

- Goal: Conduct original research in parallel computer architecture (broadly construed)
- Group size: 4-5 members

Important Project Dates

- **Project Proposal Due:** Jan. 31st, 11:59 PM on Canvas
 - Also sign up with your group name and members in the Google Doc posted on Piazza before the 31st
 - Piazza Search for Teammates function is active
- **Milestone Report Due:** 20th March, 11:59 PM on Canvas
- **Milestone Meetings:** Week of March 21st
- **Final Report Due:** 11:59 PM, April 19th, on Canvas
- **Poster Session:** Week of April 18th, time and date TBA

Final Project Grading

- The project will account for 25% of your final course grade. It will be graded out of 100 points.
- Proposal and milestone report (5 points)
- Final report (75 points)
 - ❑ Problem definition and motivation (15 points)
 - ❑ Survey of previous related work (15 points)
 - ❑ Description of design (15 points)
 - ❑ Experimentation methodology (15 points)
 - ❑ Analysis of results (15 points)
 - ❑ Statement of contribution of each team member
- Poster presentation (20 points)

Proposal Guidelines

- The proposal is a written 1-2 page document including:
 - ❑ Clearly state your group name and members.
 - ❑ A problem definition and motivation.
 - ❑ A brief survey of related work with at least four papers you have found and read that are related to your topic
 - ❑ A detailed description of your experimental setup including the infrastructure you will use and any significant development effort you must invest to build new infrastructure.
 - ❑ Project milestones and schedule. What do you expect to see by the milestone meeting? Where do you plan to go based on your observations? You can draw a flow chart to clarify.
 - ❑ Division of labor. How is each group member going to contribute to the project?

Proposal Guidelines

- I will read through your proposal and offer feedback. I may ask you to increase or decrease the scope of your project so as to have it fit within the expectations of a course project for EECS 570.

Milestone Meeting

- Milestone Report Due: 11:59PM March 20th on Canvas
 - ❑ 1-page report
 - ❑ Describe your progress and initial results. These results form the basis for the final outcome of your research. Based on these results, explain your plans for the rest of the semester. If there are any changes to plans, you should bring them up in this report.
 - ❑ Also sign up for a meeting with me during the week of March 21st
 - ❑ For the meeting, you must prepare graphs or figures of your experimental results to date and discuss them with me in the status meeting. You should paste each graph/chart into a PowerPoint slide with 1-2 bullets summarizing the main conclusion of the experiment. These graphs should form the basis of your final report and poster.

Final Report Quality

- You will submit a 6-page final report in the format of conference papers like those we are reviewing (see ISLPED for an example of what 6-page 2-column papers typically look like).
- Reports should be sufficiently polished so that they could be submitted to a high-quality workshop without further modification. I anticipate that the best projects will be submitted to computer system conferences/workshops for publication.

Project Handout is on Canvas

- Please read it thoroughly!
- Includes suggested project topics