Introduction to Computer Architecture

Assignment/Presentation 1

Due March 30, 2026
10:00 – 12:25, 16:15 – 17:50, Room 314, West 1, Room 511, East 4

Theme: What You Didn't Know (That Much) about Computer Architecture

Goal: Stop taking computer architecture for granted
WOW the class with how much it takes for computer architecture design.

Duration:
25 min / group
*group lists to be enclosed soon, each group member should present part of the talk

Topic:
Instruction, Pipelining, Memory, Cache, Storage, Multiprocessor,
Compilation, Energy, Power, etc.

Coverage:
Choose one topic of your interest, browse the 2023/2024 programs of the following
conferences:

  MICRO, ISCA, HPCA, ASPLOS

Pinpoint a specific research problem of your interested topic;
Read all related papers published in 2024/2025 at the above four top conferences;

Key:
research problem
significance
background
ideas
benefits
pros & cons

Language:
Written&Oral English

Bonus!!!
TBD… for the best presentation group

References:
[Tips for Giving Clear Talks](#)
[How to Give a Great Research Talk](#)
[Creating Effective Slides: Design, Construction, and Use in Science](#)

*Groups:
TBD