

Introduction to Computer Architecture

Assignment/Presentation 1

Due March 17, 2025

10:00 – 12:25, 16:15 – 17:50, Room 309, West 2, 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 2023/2024 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