

# Introduction to Computer Architecture

## Assignment/Presentation 1

Due October 19, 2022

08:00AM - 12:25AM, Room 502, Cao Guangbiao Building East Wing

**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 2021/2022 programs of the following conferences:

MICRO, ISCA, HPCA, ASPLOS

Pinpoint a specific research problem of your interested topic;

Read all related papers published in 2021/2022 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