
A practical introduction to Computer engineering



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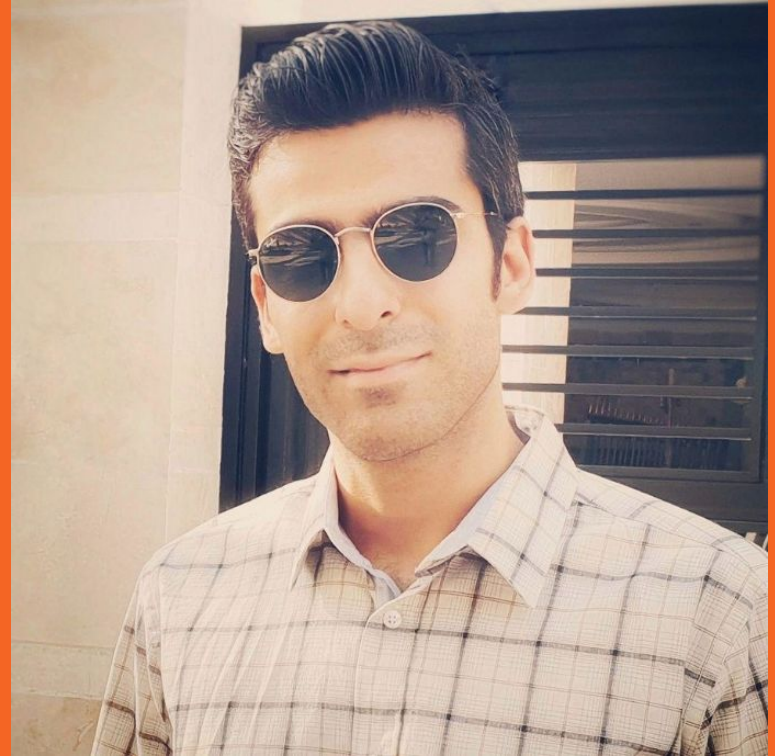


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Why on the earth
are we all here?!

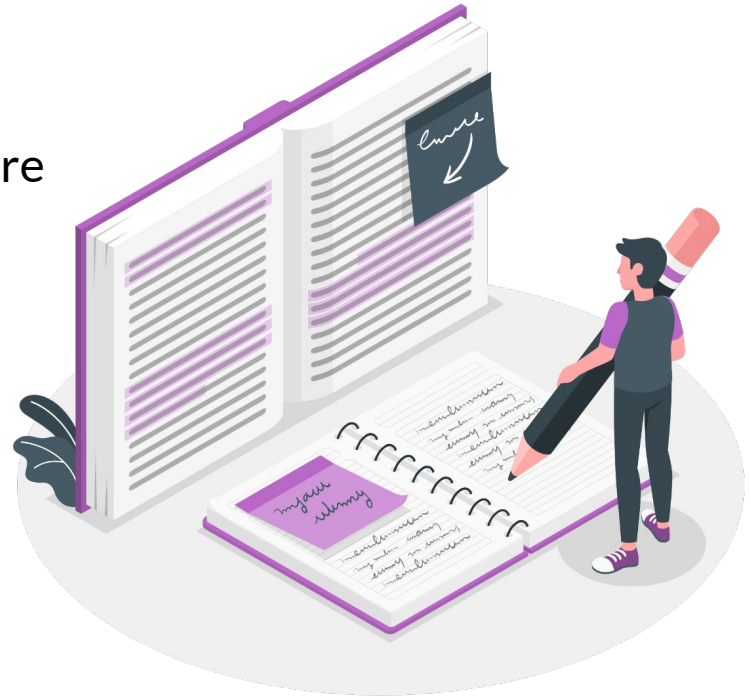


Syllabus

- An introduction to Computer Engineering and Computer systems
- Word processing with Microsoft Word and Google Docs
- Make slides with Microsoft PowerPoint and Google Slides
- Spreadsheet processing with Microsoft Excel and Google sheets
- An introduction to computer networks
- An introduction to operating systems and BASH commands
- Tracking changes in code by Git version control system.
- An introduction to web development (Frontend)
- Building dynamic web applications with PHP (Backend)
- Typesetting with LaTeX

Scores

- 9 weekly exercises: 9 scores + 1 extra score
- 10-finger typing test: 2 scores
- Final test: 9 scores



Typing test

- Typing with 10 fingers
 - [typing.com](https://www.typing.com)
 - [typingtest.com](https://www.typingtest.com)
-
- Speed: 30 WPM
- Error rate: 10%

Final exam

- Course notes
- Weekly exercises



Computer Systems

Review: Computer Systems

- System vs Set

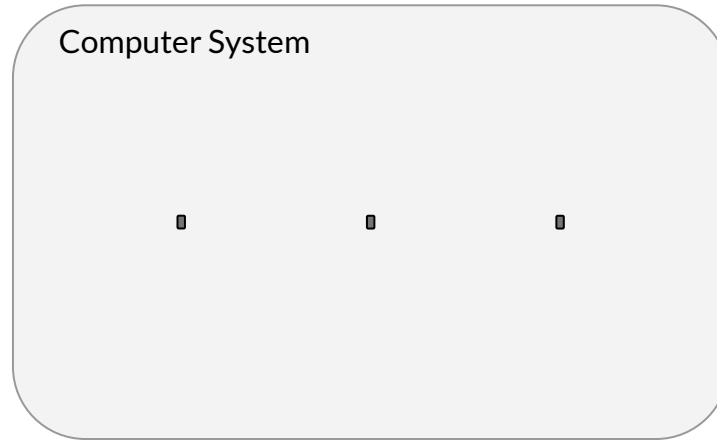
Review: Computer Systems

- System vs Set
 - Computer System
-

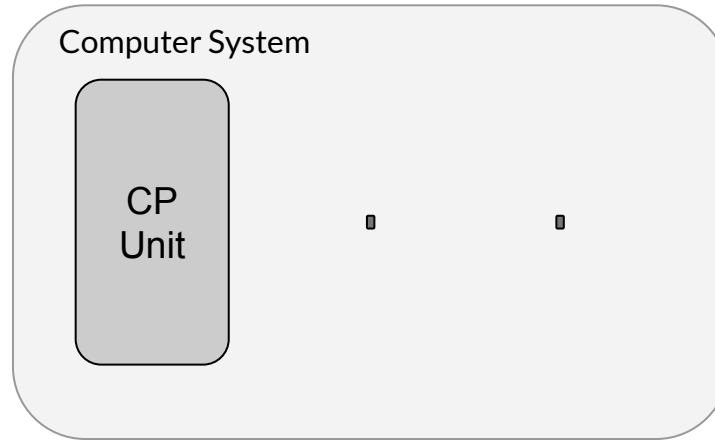
Review: Computer Systems

- System vs Set
- Computer System
 - Stored Program (John Von Neumann)

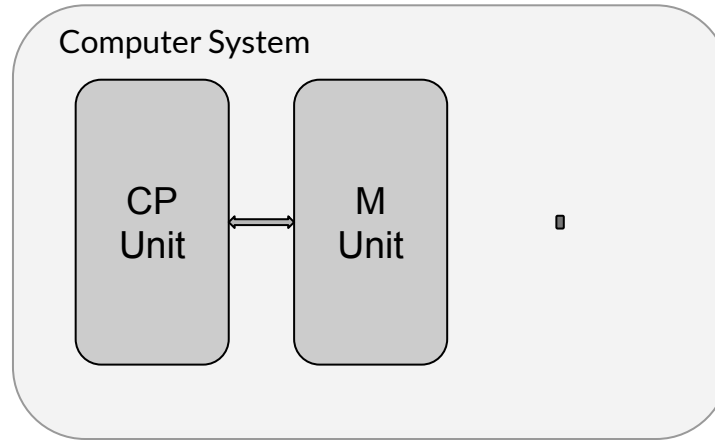
Stored Program Architecture



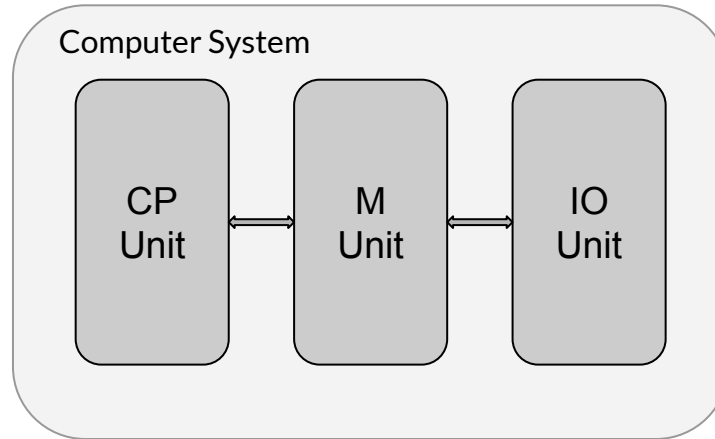
Stored Program Architecture



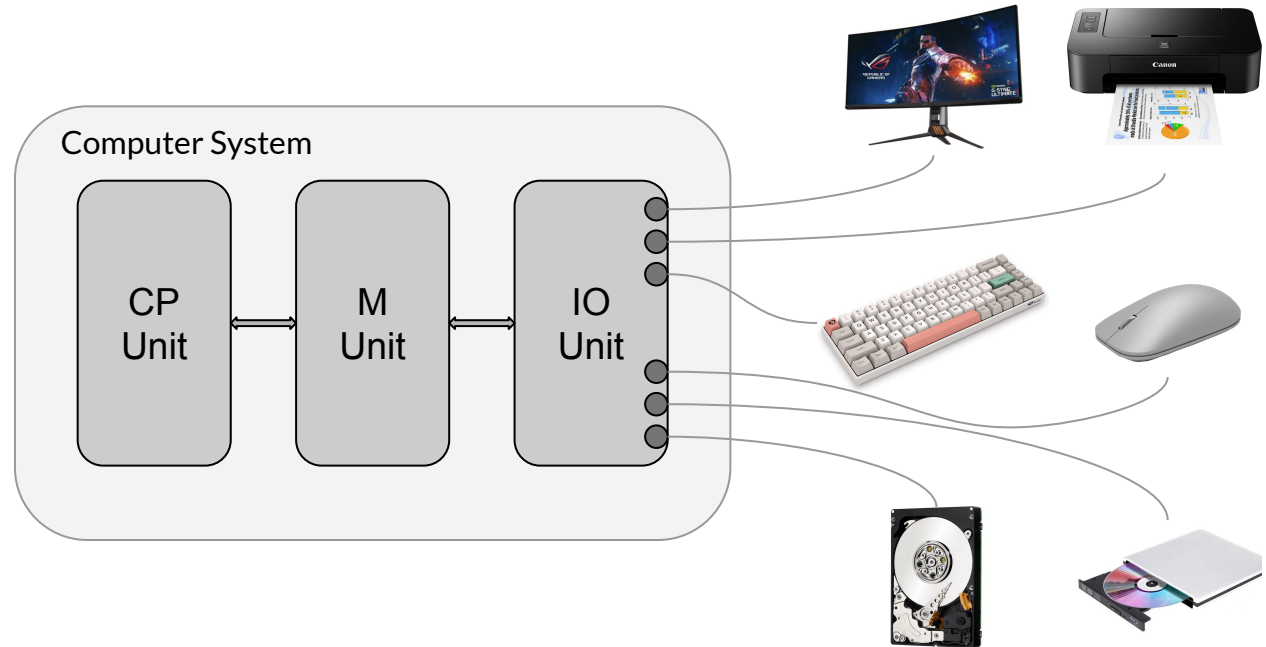
Stored Program Architecture



Stored Program Architecture



Stored Program Architecture



Hardwares

Thank you!
Q&A
