

CBCT: CS 535

Introduction to *Scientific Computing*

Lecture 2-3

Zubin Bhuyan

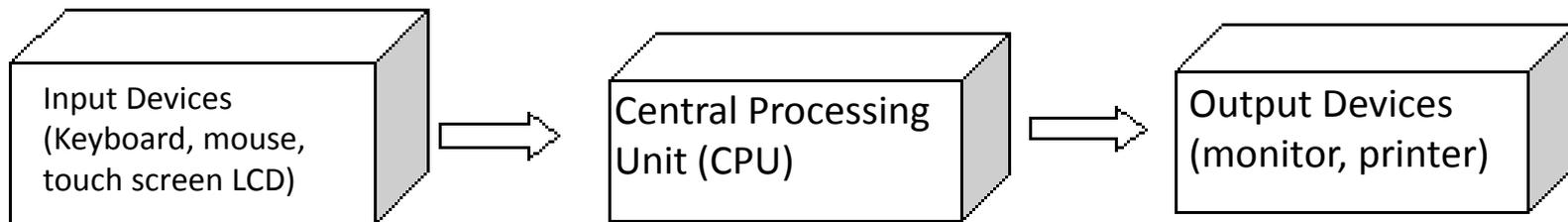
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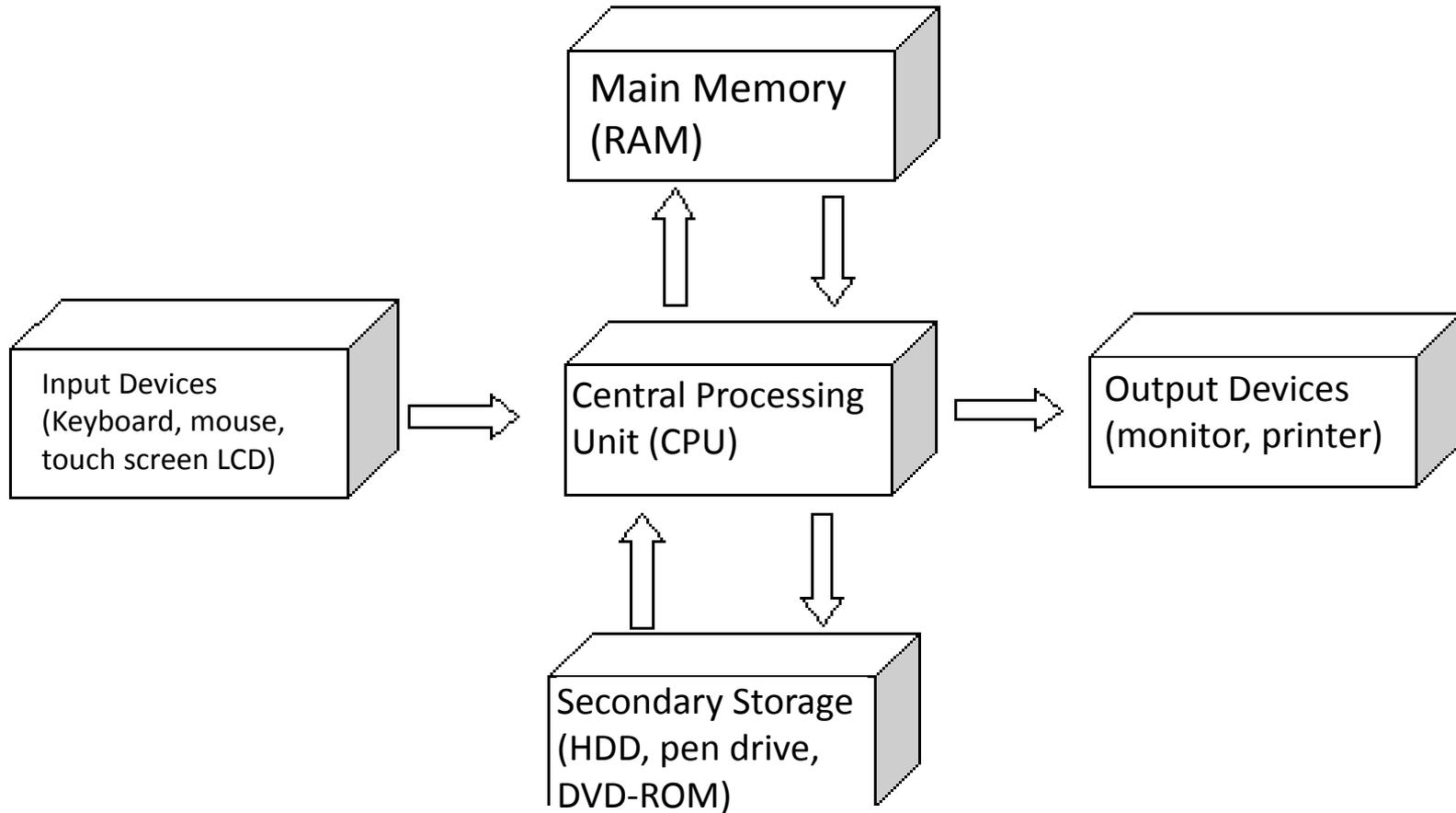
Outline

- Architecture
- Programming Languages
- The Compiler
- The C programming language
- *gcc* and Code::Blocks
- Demo

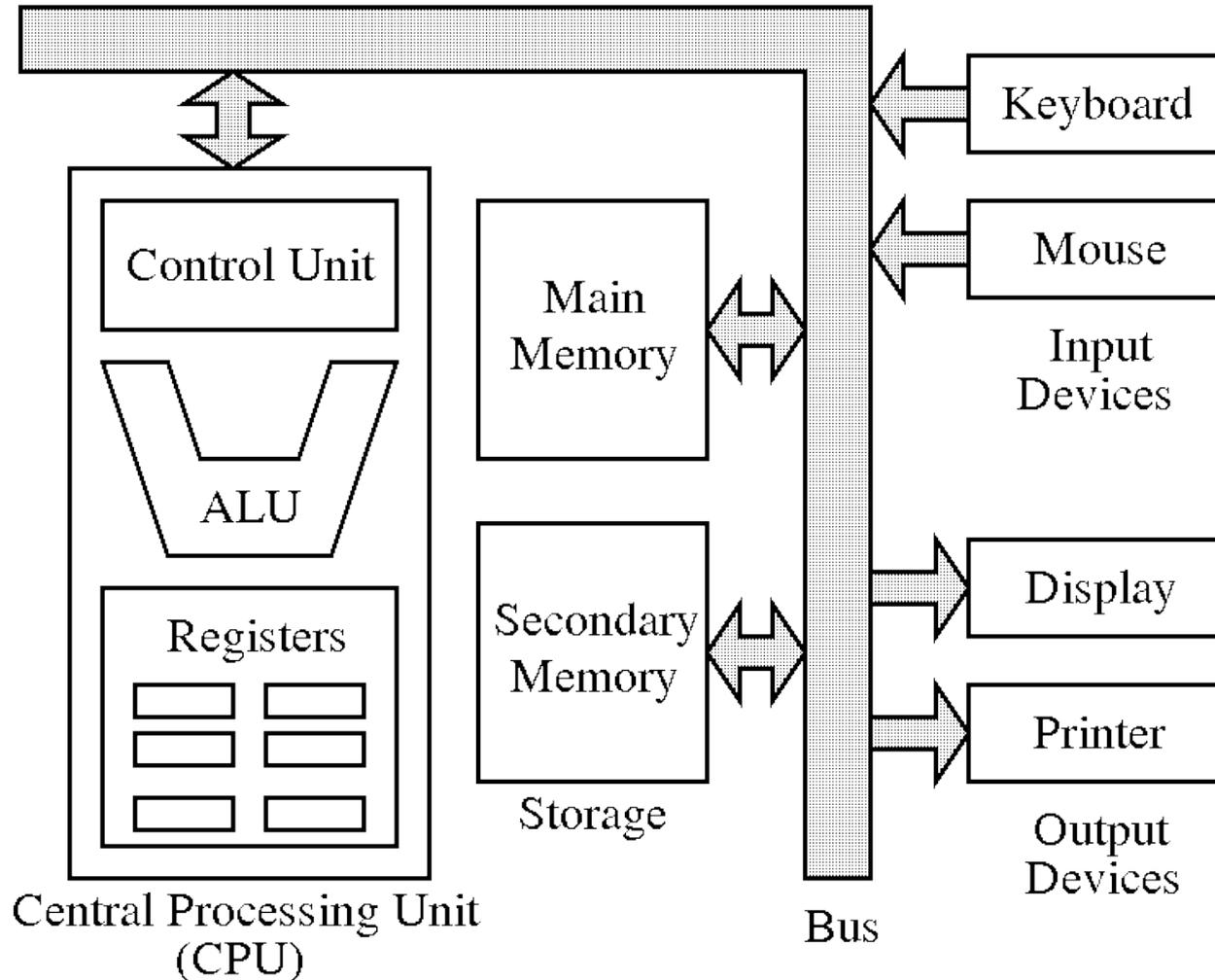
Architecture



Architecture



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Languages

High Level Language

- Higher level of abstraction from machine language.
- Makes the process of developing a program simpler and more understandable.

Assembly Language

- Little or no abstraction.
- Assembly language code is converted into executable machine code by *Assemblers*.

Machine Language

- Executed directly by the CPU.
- Every processor or processor family has its own machine code instruction set.

- Python demo.

Thanks!