



# Computer Systems



Student: *Tursunov Mirsaid*

Group: 216



# The Computer System

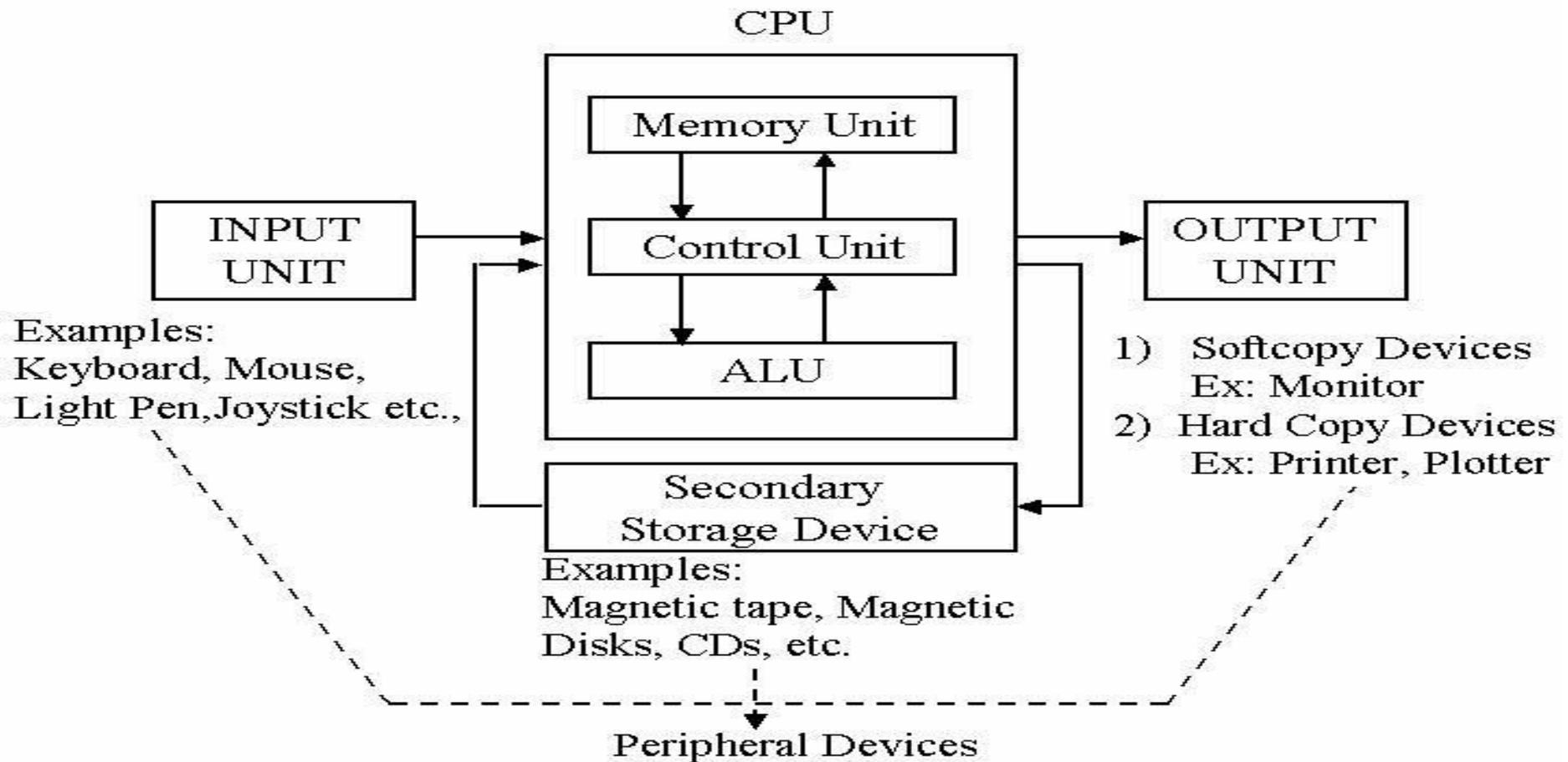
Computer system consists of (see Figure 1)

- central processing unit (CPU)
- primary storage
- secondary storage
- input devices
- output devices

Communications devices.



# Figure 1: Hardware Component of Computer Systems

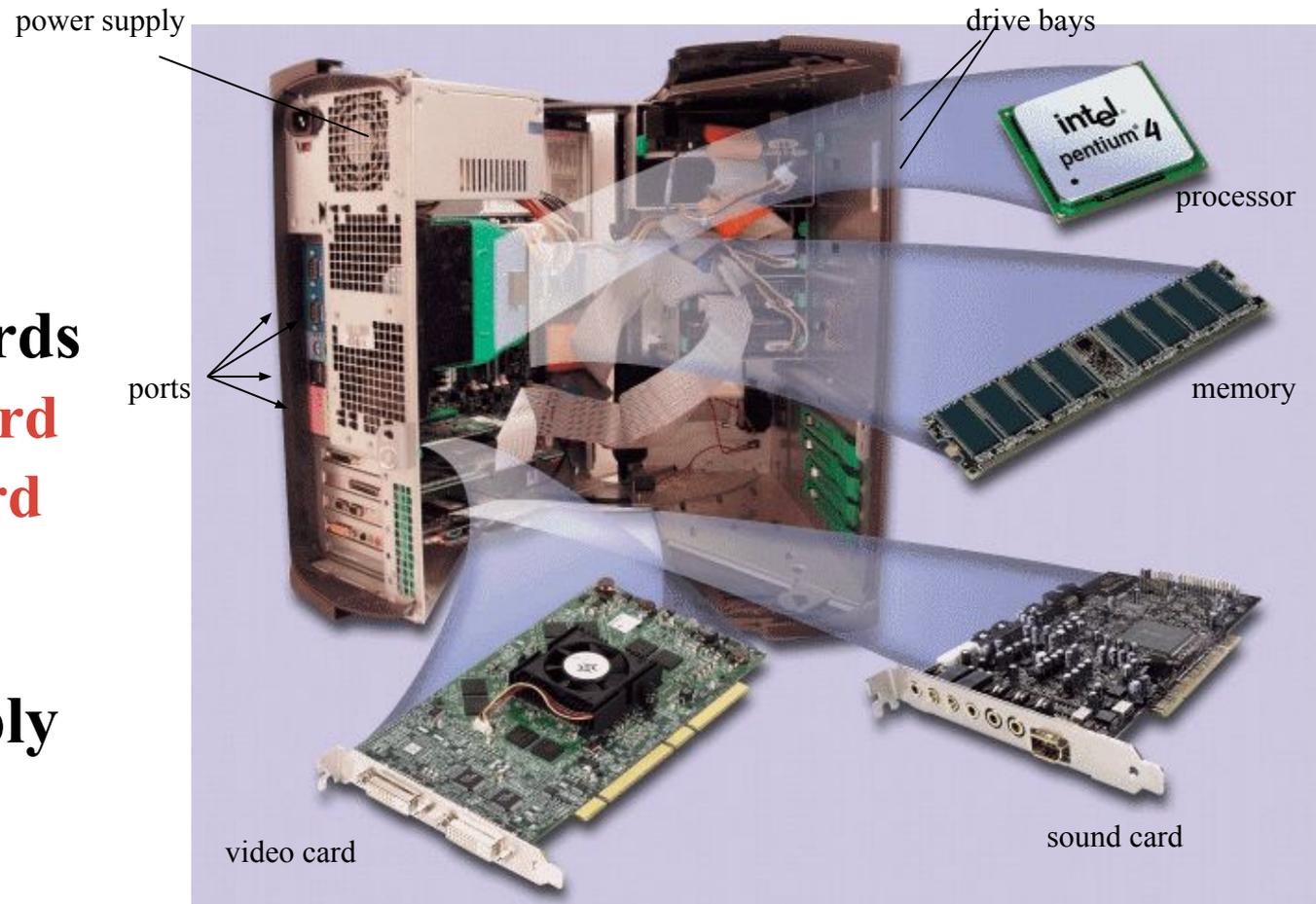




# The System Unit

- What are common components inside the system unit?

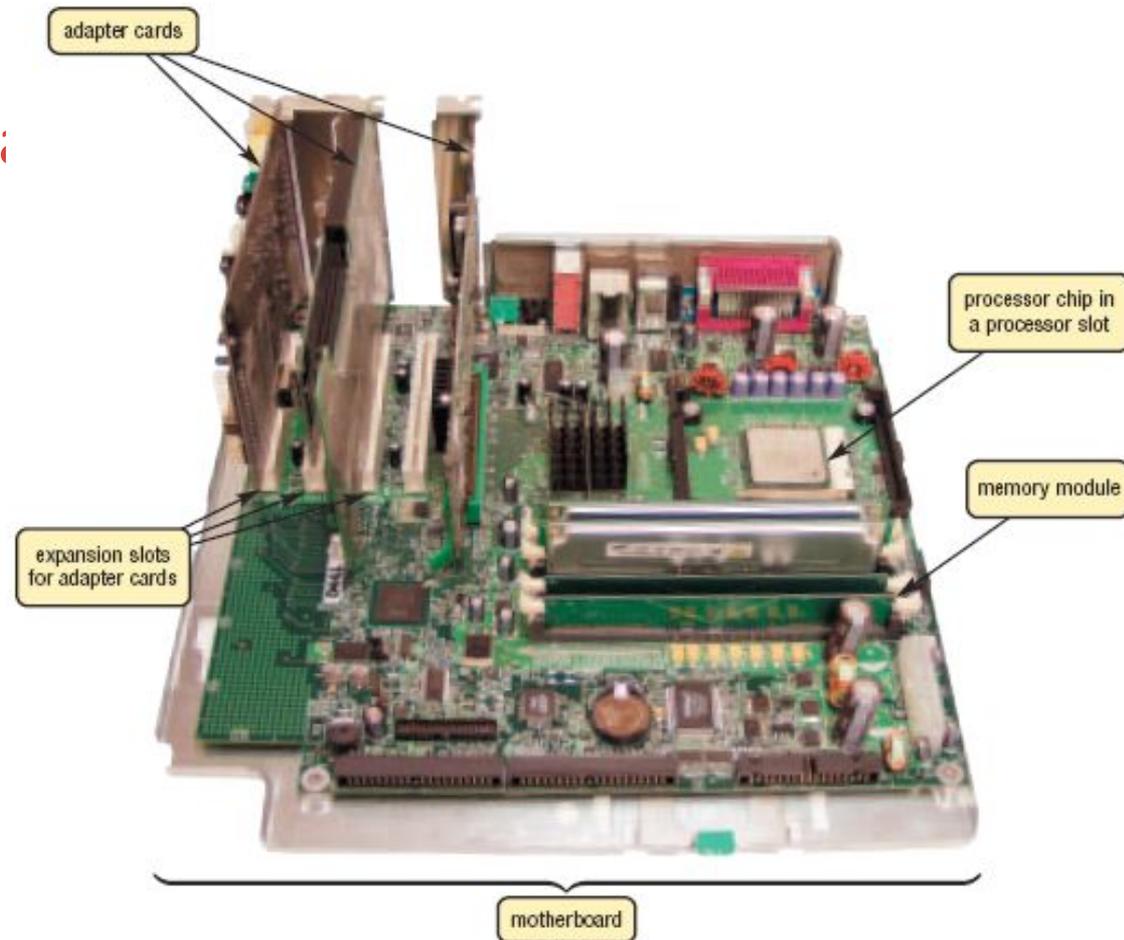
- **Processor**
- **Memory**
- **Adapter cards**
  - **Sound card**
  - **Video card**
- **Ports**
- **Drive bays**
- **Power supply**





# The System Unit

- What is the **motherboard**:
  - Main circuit board in system unit
  - Contains adapter cards, processor chips, and memory chips
  - Also called system board





# COMPUTER



**FIGURE 1-7**  
Typical computer hardware.



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- The CPU
    - manipulates raw data into more useful form and controls the other parts of the computer system.
  - Primary storage
    - temporarily stores data and program instructions during processing.
  - Secondary storage
    - devices store data and programs when they are not being used in processing.



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- Input devices
    - convert data and instructions into electronic form for input into the computer.
  - Output devices
    - convert electronic data produced by the computer system and display them in a form that people can understand.
  - Communication devices
    - provide connections between the computer and communications networks.



## • Buses

- are circuitry paths for transmitting data and signals among the parts of the computer system.

### Types of Scanners

- Scanners convert printed data or images into an electronic data format that a computer can store or process as required.
  - A scanned image can be saved, modified, and even e-mailed as you would with any other file.



All-in-one scanner



Flatbed scanner



Drum scanner\*



Handheld scanner