



Computer Systems



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Group: 216



The Computer System

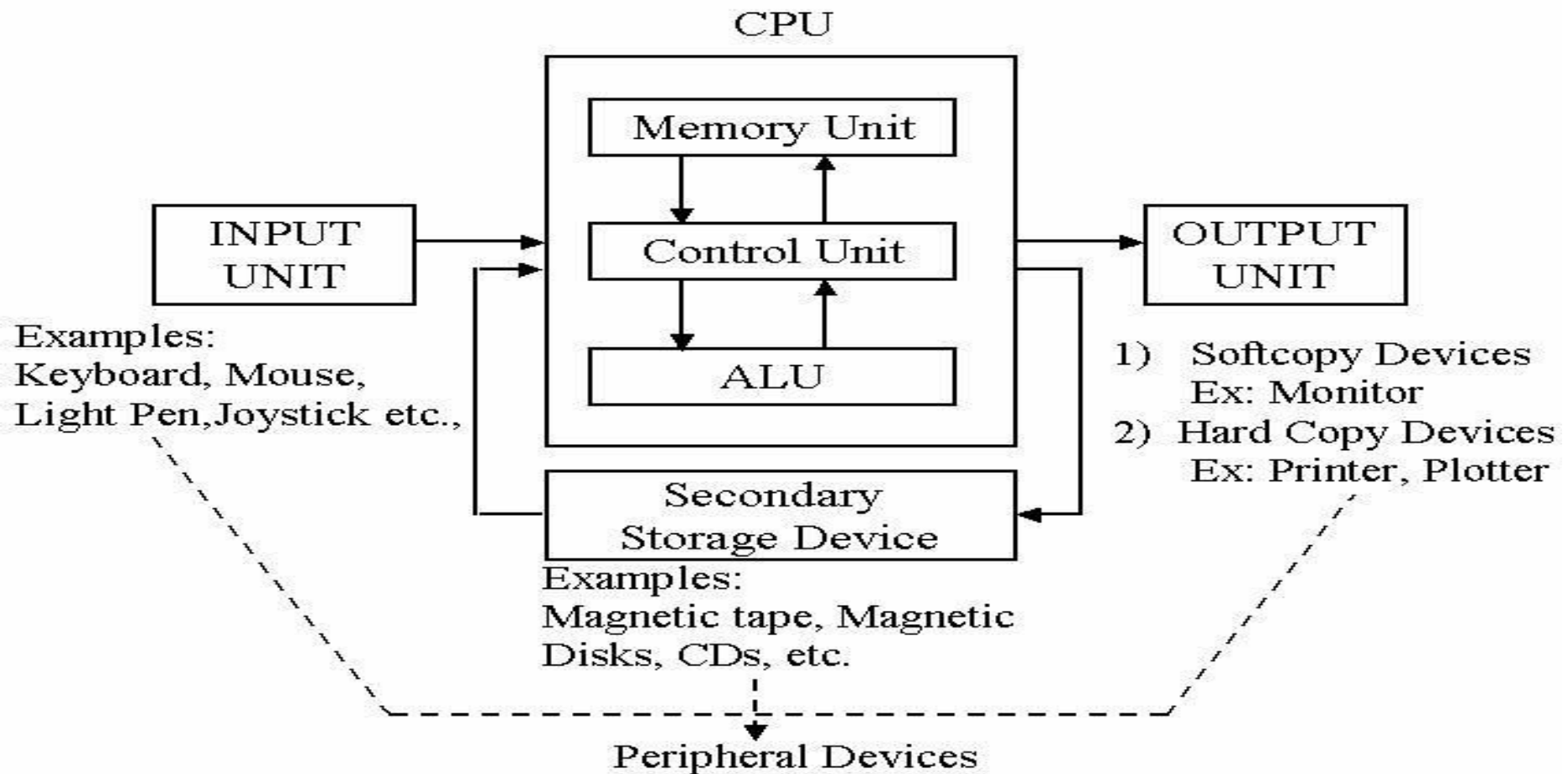
Computer system consists of (see Figure 1)

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

Communications devices.



Figure 1: Hardware Component of Computer Systems

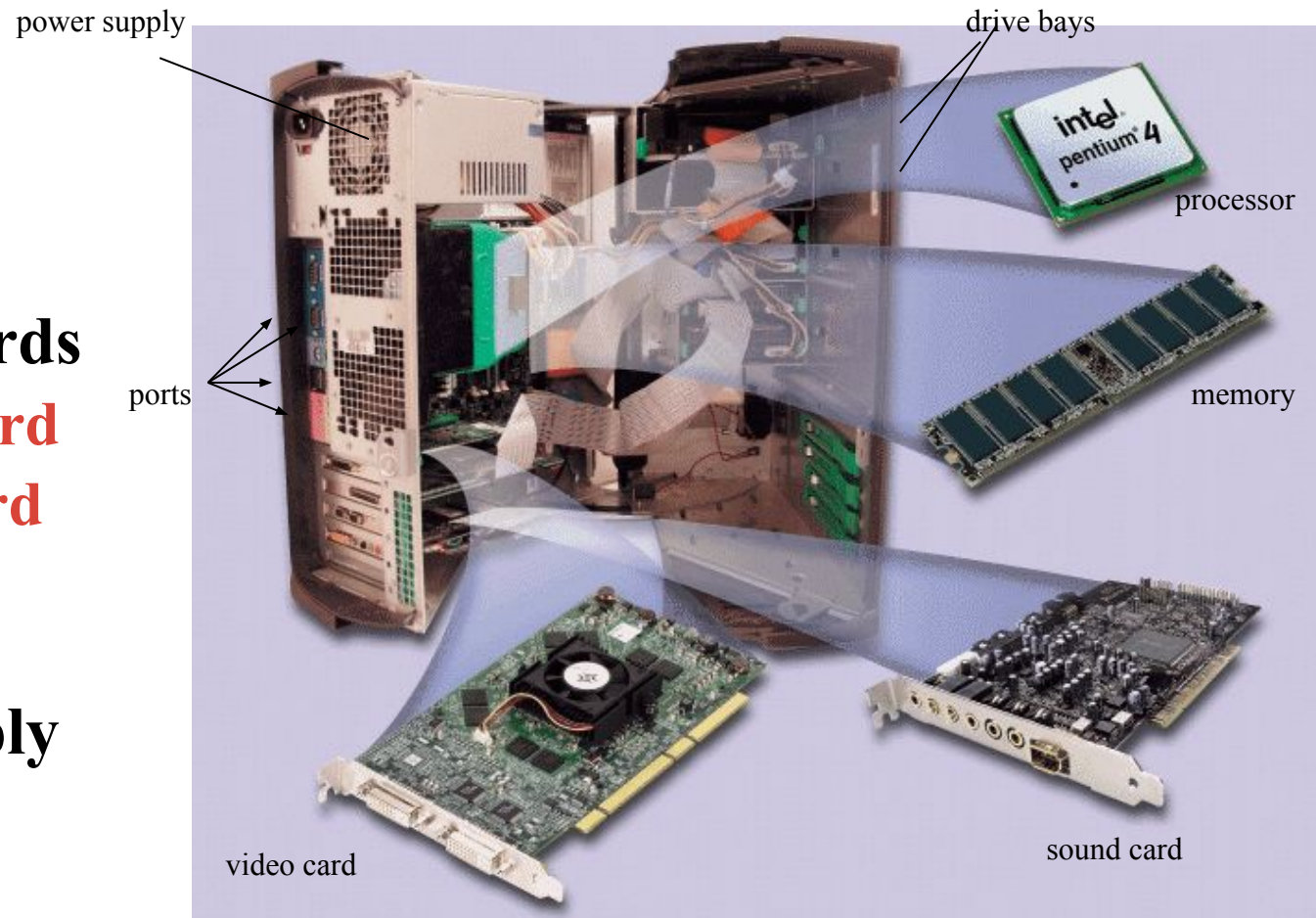




The System Unit

- What are common components inside the system unit?

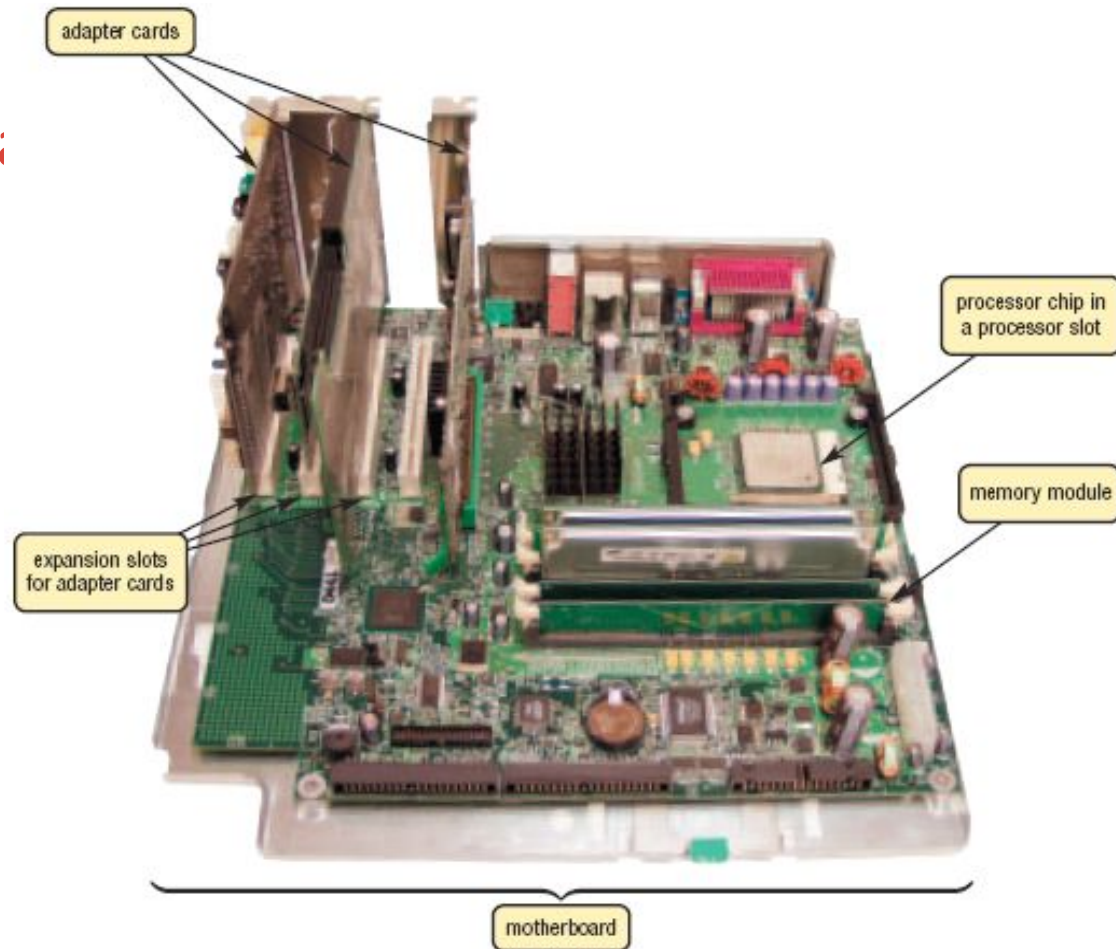
- **Processor**
- **Memory**
- **Adapter cards**
 - **Sound card**
 - **Video card**
- **Ports**
- **Drive bays**
- **Power supply**





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