1. Types and Components of Computer Systems

1.1. Hardware & Software

Hardware

- Tangible physical components of a computer system
- You can feel it or touch it
- **Internal Hardware Devices:**
  - Processor
  - Motherboard
  - RAM & ROM
  - Video & Sound Cards
  - Internal Hard Disk Drives
- **External Hardware Devices:**
  - Monitor
  - Keyboard
  - Mouse
  - Printer
  - External Storage Devices

Software

- Programs that control computer systems
- Set of instructions that make computer do something
- You cannot physically touch software
- Relates to ideas & instructions for using physical objects

Two types of software:

- **Application software:**
  - Programs that allow the user to do specific task
  - Design to carry out tasks
  - Can be general purpose software or custom-made software (specialist software)
  - E.g. Spread sheets, databases, word processing
- **System Software:**
  - Programs that allow the hardware to run properly
  - Control computer's hardware and application program
  - Communicate with user
  - E.g. Operating system, device drivers, compilers

1.2. The Main Components of Computer Systems

CPU

- Processing done by central processing unit
- Three main components:
  - Control unit - coordinates input and output devices and carries out program instructions
  - Arithmetic and Logical Unit (ALU) - performs calculations and logical comparison: A < B?
  - Immediate access store (IAS) - holds data and program instruction in current use
- **Microprocessor:**
  - Used instead of CPU
  - Single integrated circuit

Internal/Main Memory

- Stores all data: application software, operating system, data files
- Consists of ROM and RAM
- Both RAM and ROM are integrated chips
- **RAM:**
  - Random access memory (RAM) is an internal chip where data is stored temporarily
  - Memory can be written to and read from
  - RAM > ROM (usually; except washing machines)
  - Stores anything that needs to be changed
  - All program and data being used are on RAM
  - Contents lost when computer is turned off
  - Referred to as volatile memory
- **ROM:**
  - Read only memory (ROM) is memory used to store permanent information
  - Used to contain configuration data for a computer etc.
  - Chips cannot be altered, only read from
  - Data not lost when computer is turned off
  - Referred to as non-volatile memory
- **BIOS:**
  - ROM contains boot file, referred to as BIOS (basic input/output system)
  - Tells computers what to do when it first starts
  - Does hardware check when computer is turned on
  - Then it loads operating system into RAM
  - BIOS stores date, time and system configuration

Input & Output Devices

- **Input devices:**
  - Purpose is to provide data for processing
  - Data is raw facts which alone have no meaning
  - Examples: keyboard, mouse
- **Output devices:**
  - Displays result of processing
  - Information is processed data which has been given meaning
  - Examples: monitor, printer

Secondary/Backing Storage

- Stores data/information & programs not being used at current time

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