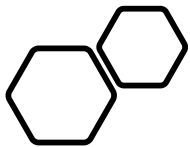




HARDWARE & SOFTWARE COMPUTER SPECIAL CLASS

**SSC CGL / CHSL /
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26-28 SEP 2020 | 06:30 PM – 08:00 PM



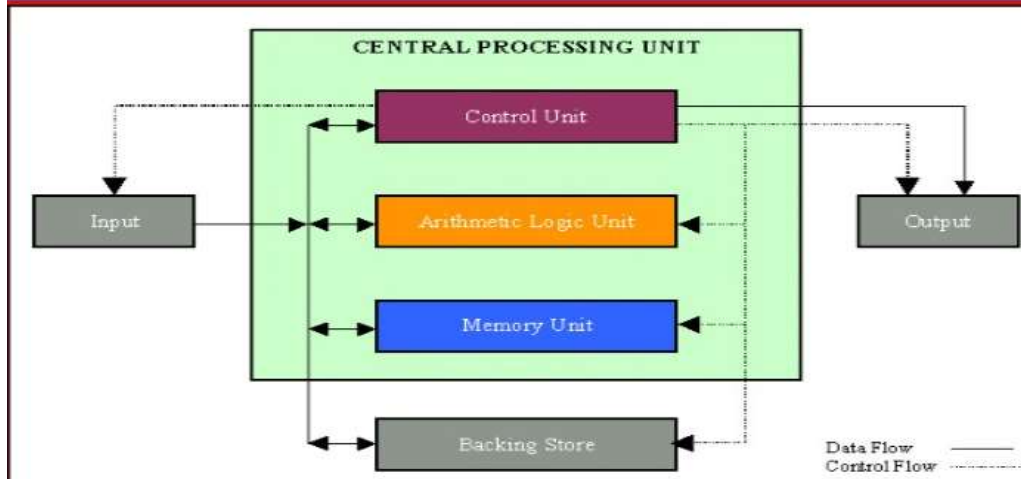
HARDWARE & SOFTWARE

By: Dheerendra Sir



CPU – CENTRAL PROCESSING UNIT

- It is designed to perform arithmetic and logic operations that makes use of small number-holding areas called *registers*.
- Typical microprocessor operations include adding, subtracting, comparing two numbers, and fetching numbers from one area to another. These operations are the result of a set of instructions that are part of the microprocessor design.

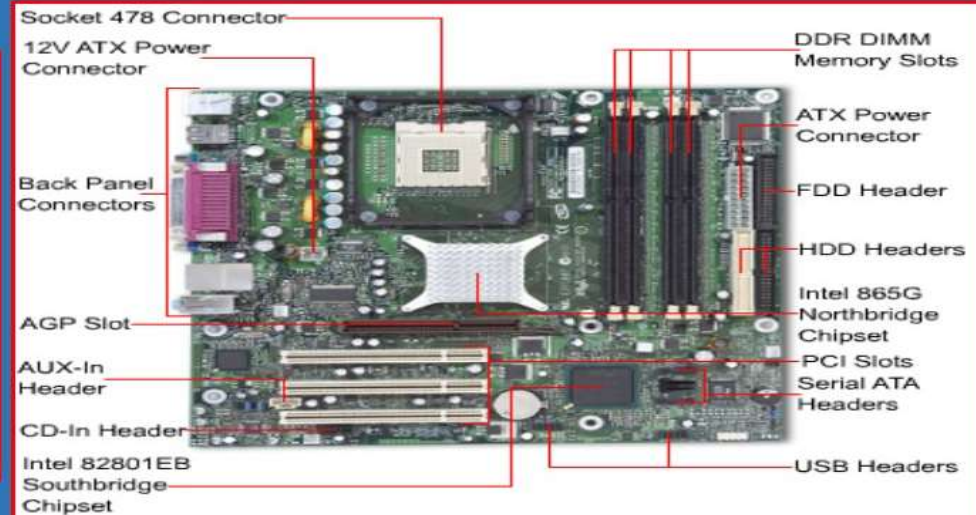


MOTHERBOARD

A **Motherboard** is the physical arrangement in a computer that contains the computer's basic circuitry and components. On the typical motherboard, the circuitry is imprinted or affixed to the surface. :

Components of mother board are :

- The microprocessor
- Memory
- Basic input/output system (BIOS)
- Expansion slot
- Interconnecting circuitry



SOFTWARE

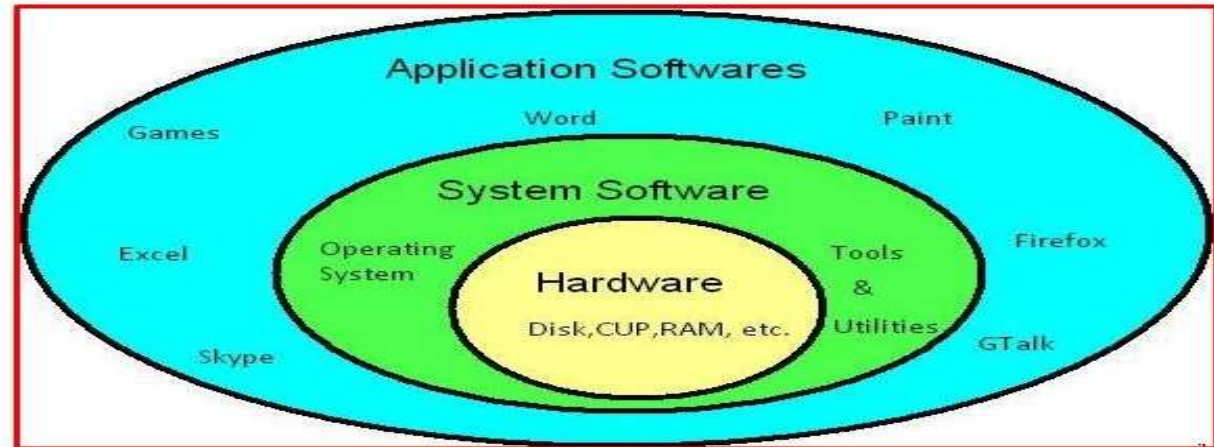
- **Software is** untouchable or intangible **part of the** computer.
- **Software is a** set of program **that performs** related task.



SOFTWARE : TYPES

➤ Types of Software

- Application Software
- Systems Software



SYSTEM SOFTWARE

➤ System software

Programs that support the execution and development of other programs. These are compulsory software for the computer system, without which computer can not work.

E.g.- Operating system, compiler, interpreter etc.

SOFTWARE : TYPES

➤ **Application Software:** Software which is used to do users tasks are called Application Software. Application Software includes programs that do real work for user. Example:

Adobe Photoshop, Media Players, web browsers, Adobe Reader, Word Processor, Spreadsheet etc.



SYSTEM SOFTWARE : UTILITY SOFTWARE

Utility Software:

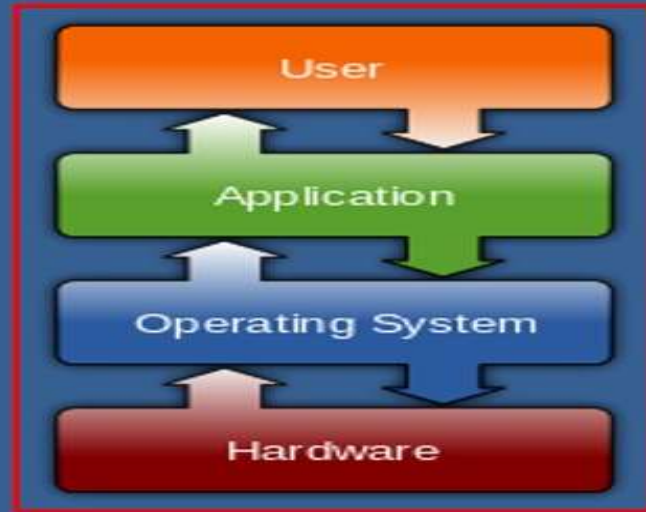
Small and useful programs which support all devices are called utility software.

Some Examples are -

- Device Driver
- Disk defragmentation
- Compression software
- Antivirus etc.

SYSTEM SOFTWARE : O.S.

Operating System: Operating system is a software which acts as an interface between user and the computer hardware.



OPERATING SYSTEM : EXAMPLES

- Windows
- Macintosh
- Linux
- UNIX
- Android



OPERATING SYSTEM : EXAMPLES

➤ **Windows** : Its widely used O.S. Its associated with Microsoft corp.

Inbuilt browser : Internet explorer

First version : windows1.0

Latest version: windows10

MICROSOFT EDGE browser use in window **10**.



OPERATING SYSTEM : EXAMPLES

➤ **Macintosh:** Mac O.S. is associated with Apple corporation.

First version : 1.0

Latest version: Yosemite (10.10)

Inbuilt browser: Safari

Different versions of MAC: (Cheetah, puma, Jaguar, panther, Tiger, Leopard, Snow leopard, Lion, Mountain lion, Mavericks)



OPERATING SYSTEM : EXAMPLES

Linux:

Linus Torvalds has developed Linux O.S.

It is not associated with any company .

It is an open source software

First version :1.0

Examples: Red hat, Fedora, Ubuntu etc.



OPERATING SYSTEM : EXAMPLES

UNIX:

- **UNICS**(Uniplexed information and computing system)
- It is written in 'c' programming language.
- UNIX is multi user OS contains shell Programming.



OPERATING SYSTEM : EXAMPLES

➤ **Android** : It is associated with Google corporation.

First version: **Alpha(1.0)**

Latest version: **Marshmallow(6.0)**

Different versions of Android:

Alpha(1.0), Cupcake, Donut, Eclair, Froyo, Jellybean, Lollipop(5.2), Marshmallow(6.0)



OPERATING SYSTEM : TYPES

- A **single user operating system** only has to deal with the requests of the single person using the computer at that time.
- Eg. MS-DOS, Windows, Android etc..



```
Starting MS-DOS . . .  
C:\>_
```


OPERATING SYSTEM : TYPES

- **Multi-user operating system** allows lots of people to access the resources of the mainframe computer.
- A multi-user operating system 'slices up' the mainframes resources and divides it out to the different users.


Eg.— UNIX, LINUX etc.



OPERATING SYSTEM : TYPES

➤ **Single-Tasking Operating System:**

A single-tasking operating system can support only one task at a time. In such single tasking environment, the task execution is sequential.
Eg. MS-DOS



Starting MS-DOS . . .
C:\>_

OPERATING SYSTEM : TYPES

➤ **Multi-tasking operating system:**

Multi-tasking **means to** run more than one program at once.

This is commonly done when copying a picture from the Internet and pasting it into a document. In this case, the two programs running are the browser and the word processor.

It is the operating system which manages this process.

Eg.- Windows XP, Windows Vista etc..

OPERATING SYSTEM : TYPES

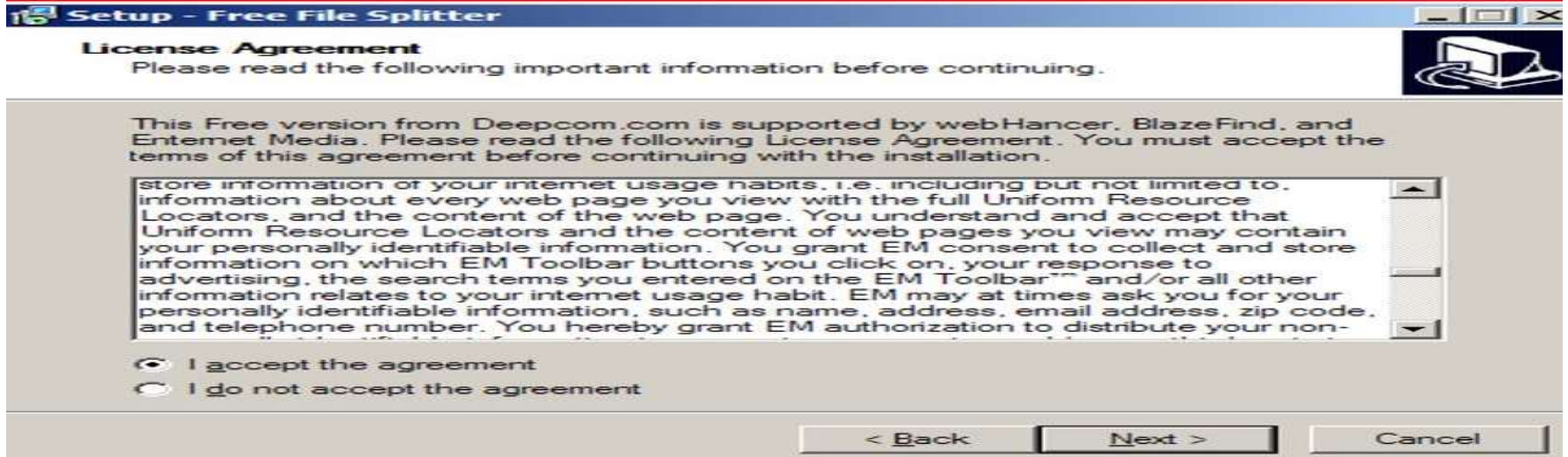
- **Network operating system** is a type of multi-user operating system. An operating system that is designed for a server.
- Eg. Windows NT, Windows Server 2000, Windows Server 2003, Windows Server 2013.



Windows Server®

SOFTWARE LICENCING

- EULA- **An End User License Agreement (EULA) is a legal contract between a software application author or publisher and the user of that application.**





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