

DCA Notes

Computer

Computer is a powerful machine which is used to complete file folder application provided by a centralized platform then receiving instructions that in Binary form (0 & 1).

Software

Software is a collection of program and related data that provides the instructions for telling the computer what to do and how to do it.

Hardware

It is physically touch and sense device that is called Hardware.

Application

The collection of program that is called Application.

Operating System (OS)

A set of all basic need software in the computer that is called Operating System.

Cabinet

Front Panel	Back Panel
<ul style="list-style-type: none">a) DVD/CD Writerb) Power switchc) Reset switchd) Power LEDe) HDD access indicator LEDf) USB portg) Audio Jack	<ul style="list-style-type: none">a) SMPS power quadb) SMPS fanc) Linerd) VGA porte) VGA cablef) IDE portg) IDE cableh) Parallel porti) Serial portj) LAN portk) PS/2 portl) SATA cablem) SATA connectorn) IDE connectoro) USB port

Components

1. RAM
2. Memory
3. Cache Memory
4. CPU
5. Processor
6. Motherboard
7. Slots
 - Integrated
 - Non-Integrated
8. Sockets

Reset Switch

It is used to resetting data of programming based switch.

USB Port

It is used to entire data base only.

Audio port

It is used to Sound system based input/output service provider.

Video Port

It is used to Graphical programming based service provider.

SMPS Power Quad

- It is used to regenerate motherboard signals.
- It Support DVD/CD Writer.
- It is valiancy loaded voltage.
- It converts AC to DC.

Liner

- It is a power supply unit.
- It is an old day's device.
- Its Performance was very slow.
- It's very costly.
- And cheapest.
- Its connectivity was very slow.
- It can't be easily configured.

SMPS Fan

It supported by cooling environment (SMPS).

VGA Port

It supports video graphical programming.

VGA Cable

It is used to display managing and configure.

IDE Cable

It is supported by 39 pins but showoff 40 pins. Also known as PATA cable.

IDE Port

It supports PATA Hard Disk Drive.

Parallel Port

It supports printer then input/output resources.

Serial Port

It supports gaming mode.

LAN Port

It supports network environment. It is used by Internet Service Provider (ISP).

SATA Cable

It is supported by 7 pin connector then supported by SATA Hard Disk Drive.

PS/2 Port

It is used to input keyboard and mouse.

SATA Connector

It supports SATA Cable.

IDE Connector

It supports IDE cable (PATA Cable).

Types of software

Software are of three types:

1. System Software
2. Utility Software
3. Application Software

System Software

It is computer software designed to operate and control the computer hardware and to provide a platform for running application software.

Example: Motherboard software, Operating System like as Windows 7, Windows XP, Linux, Android etc.

Utility Software

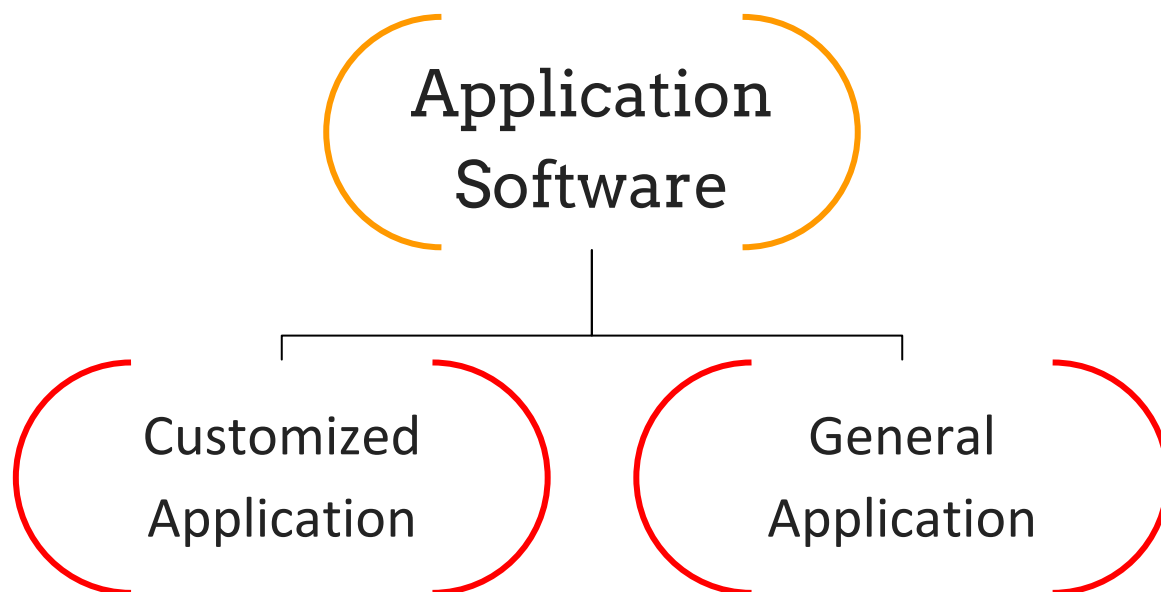
It is designed to help, analyze, configure, optimize or maintain a computer.

Example: Disk Cleaner, File manager, network utilities, Antivirus etc.

Application Software

It is designed to help the user to perform specific tasks.

Example: MS Word, MS Excel, Tally, Photoshop, MS Paint, Windows Media player etc.



Customized Application Software

It is created and published separately.

General Application Software

It comes bundled with Operating system.

RAM [Random Access Memory]

It is used to store data and running configuration temporarily.

Types of RAM

There are two types:

1. Volatile
2. Non-volatile

Volatile

It is temporary memory, which is erased when power turns off. RAM is volatile.

Non-Volatile

It is permanent memory which doesn't erase when power turns off.
ROM is non-volatile.

ROM [Read Only Memory]

It is used to store data and configuration permanently.

Types of Computer

There are four types:

1. Micro Computer
2. Main-frame computer
3. Mini computer
4. Super Computer

Micro Computer

It is used to particular basically simple uses like home, school, office, branch and anywhere.

Main-frame Computer

It is used to mainframe machine in database securing server machine.

Mini Computer

Mini Computer is used to basic only like as MS Office based file database securing.

Super Computer

It is used to particularly a big company in the created banner mode and animated feature provide.

Ethernet code

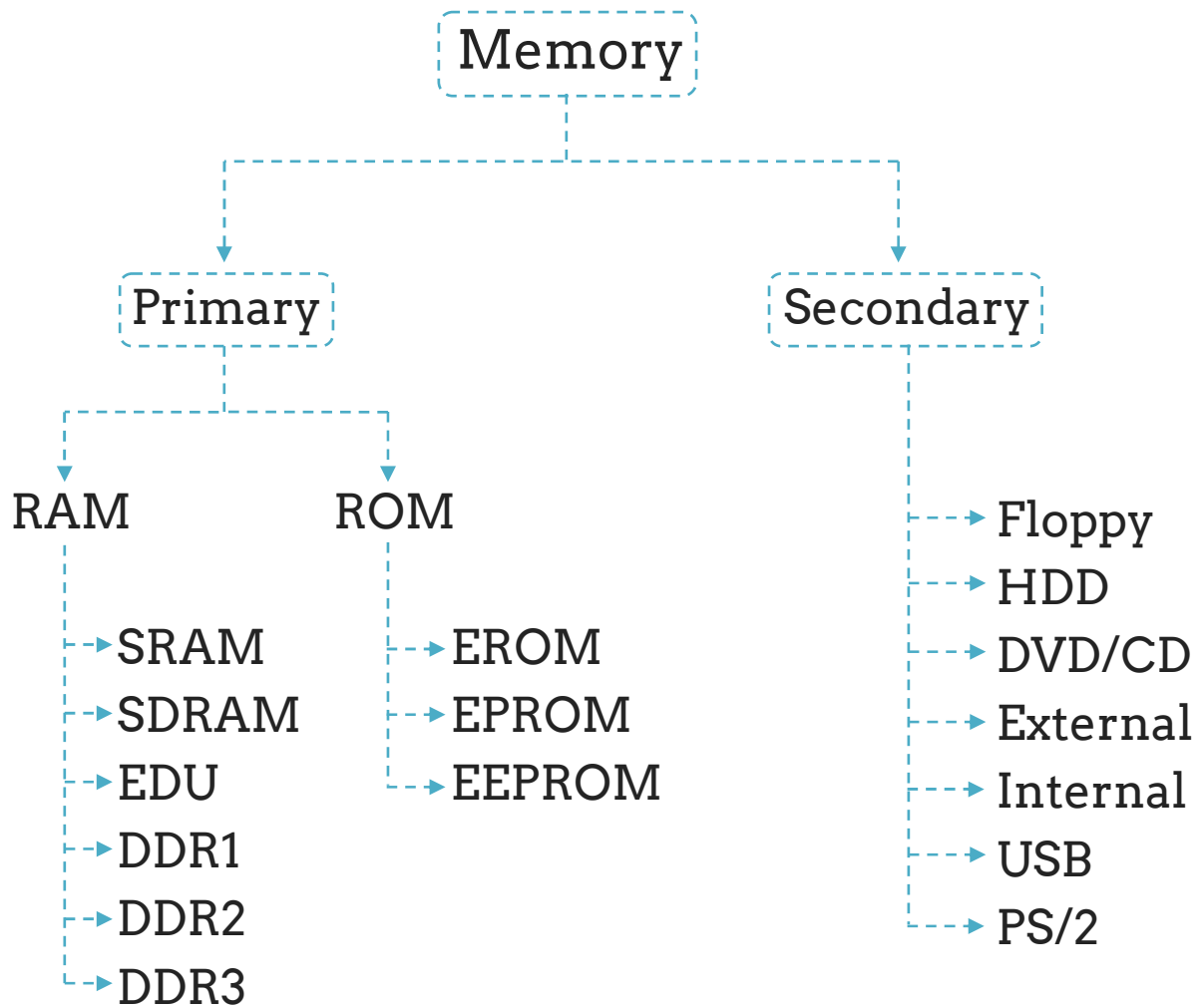
IEEE 802.3

Wi-Fi code

IEEE 802.11

IEEE => Institute of Electrical & Electronic Engineers (Code Provider)

Memory



Processor

Processor's compatibility with RAM

RAM

