

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



System and Computer basic Components

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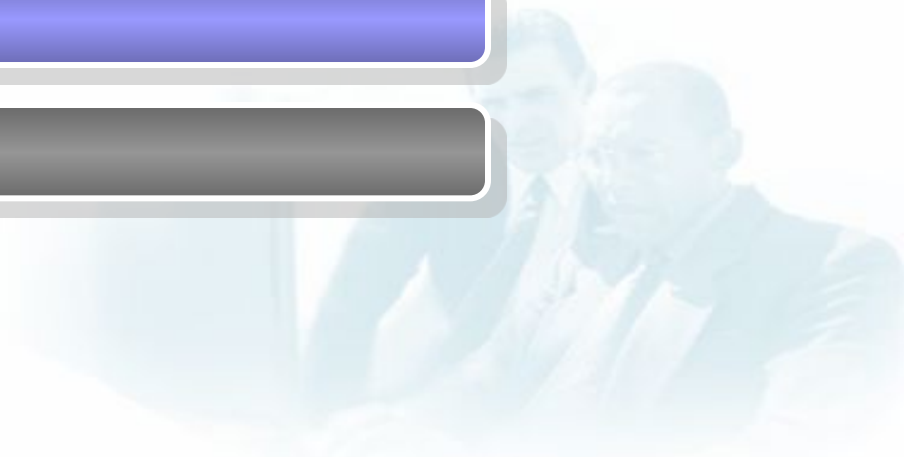


What is ICT

Computer is a machine

Programs

Computer using





Computer as a Machine(Hardware)

- physical, mechanical, electrical, and electronic parts =Hardware






Computer Types

■ Personal Computers

- ✓ Desktop Computers : Most common type of personal computers.
- ✓ So called because they fit on a desk and are not portable
- ✓ Prices are largely dropped.

■ Laptops

- Also called **Notebook**.
 - More expensive than PC
 - People who do not worked in fixed locations, lecturers photographers and journalists.
- 



Computer Basic Components

- CPU
- Storage Media
- Peripherals





Basic Computer Parts

- **CPU**- also called **Microprocessor**
- The Microprocessor is a computer chip that is designed to carry out the function of the electronic device, kind of like an engine.
- It's made of Silicon transistors
- Brain of the computer, which perform the basic arithmetical, logical, and input/output operations of the system.

- Located in the motherboard
- Speed measured in MHz or GHz
- It handles the Computer/Phone's operations from texting to e-mailing and even your apps.
- A modern smartphone like iPhone 6 has more computing power than the computers that sent Apollo spaceship to the moon.



Addition

Subtraction

Multiplication

Division





Microprocessor Timeline

- The timeline of the Microprocessor is surprisingly short!
- In less than 70 years we went from having an understanding of how Transistors work, to being able to pack billions of them into postage stamp sized chip.







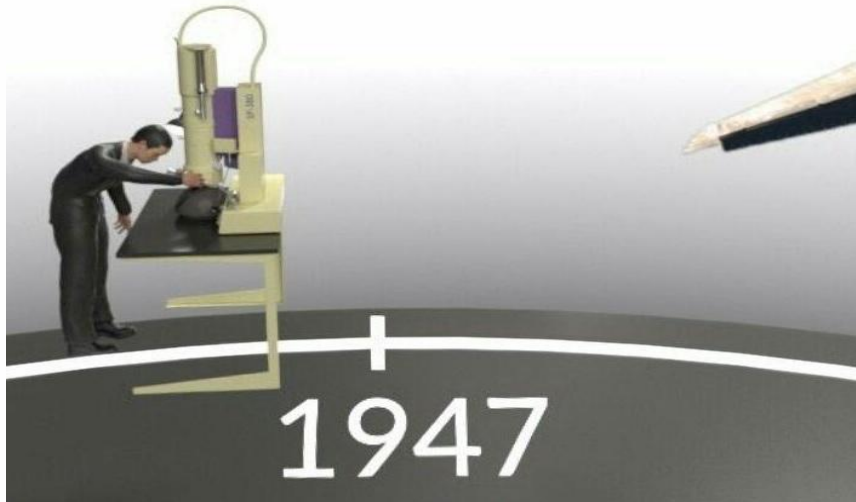
Microprocessor Timeline

- The first working transistor was created in 1947.
- Acting as a form of On/Off switch





A New Discovery (Transistor)





F-14 fighter jet



Microprocessors were few and very expensive.

Developed for very special purposes.





1st Microprocessor Intel 4004



Cost \$350 USD
Contains 2,300 Transistors

1971



Intel 8086



1978

Contains 29,000 Transistors



IBM Deep Blue Computer



Deep Blue computer beat Chess Master Garry Kasparov for the first time ever!

It was able to analyze 200 million positions per second!



AMD Athlon 64



2003

Contains 65 Million Transistors

Released in Market





First iPhone Release from Apple



2007

Invention of the Year !

Apple was pretty much able to store a computer on a phone!





Today

Today's Cell phone has as much as computing power as a Supercomputer from 2 decades ago





Thank You

