



CPU

I/O

" "

.

!

()

()

()

()

() **MIS**

)

(

(

)

()

()

)

(

()

(COMPUTER)

: ()

:

:

IC

:

VLSI

:

IC : Integrated Circuit

VLSI : Very Large Scale Integration

: ()

(Micro Computer)

(Mini Computer)

(Main Frame)

(Super Computer)

(Single User)

(Personal Computer)

() : () DATA
 () : () INFORMATION
 : () PROCESS

: EDP (Electronic Data Processing)

INPUT

PROCESS

OUTPUT

ax+b=0

() a,b

x=-b/a

() a,b,x

() : Bit

: Byte

: Word

: K (Kilo)

: M (Mega)

: G (Giga)

: T (Tera)

() : Field

: Record

: File

: Data Base

:
:()

A 0 0,1,2,3,.....,8,9,A,B
B

401 :

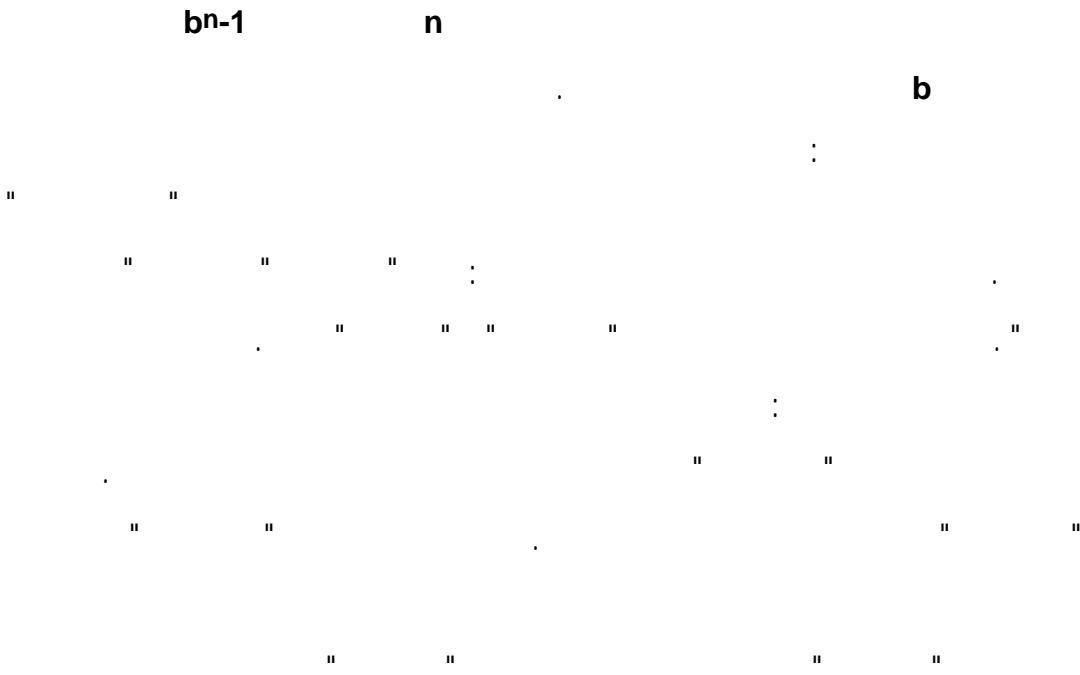
$$401 = 4 \cdot 10^2 + 0 \cdot 10^1 + 1 \cdot 10^0 = 400 + 0 + 1$$

" "

0,1 : (Binary)

()
()
)

(



BCD (Binary Coded Decimal)
 EBCDIC (Extended BCD Interchange Code)
 ASCII (American Standard Code for Information Interchange)

BCD

EBCDIC

PC

ASCII

()

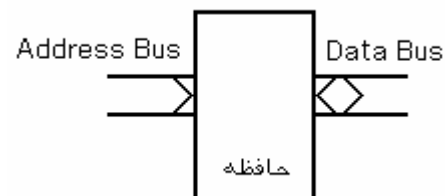
:()
: (Hardware)
: (Software)

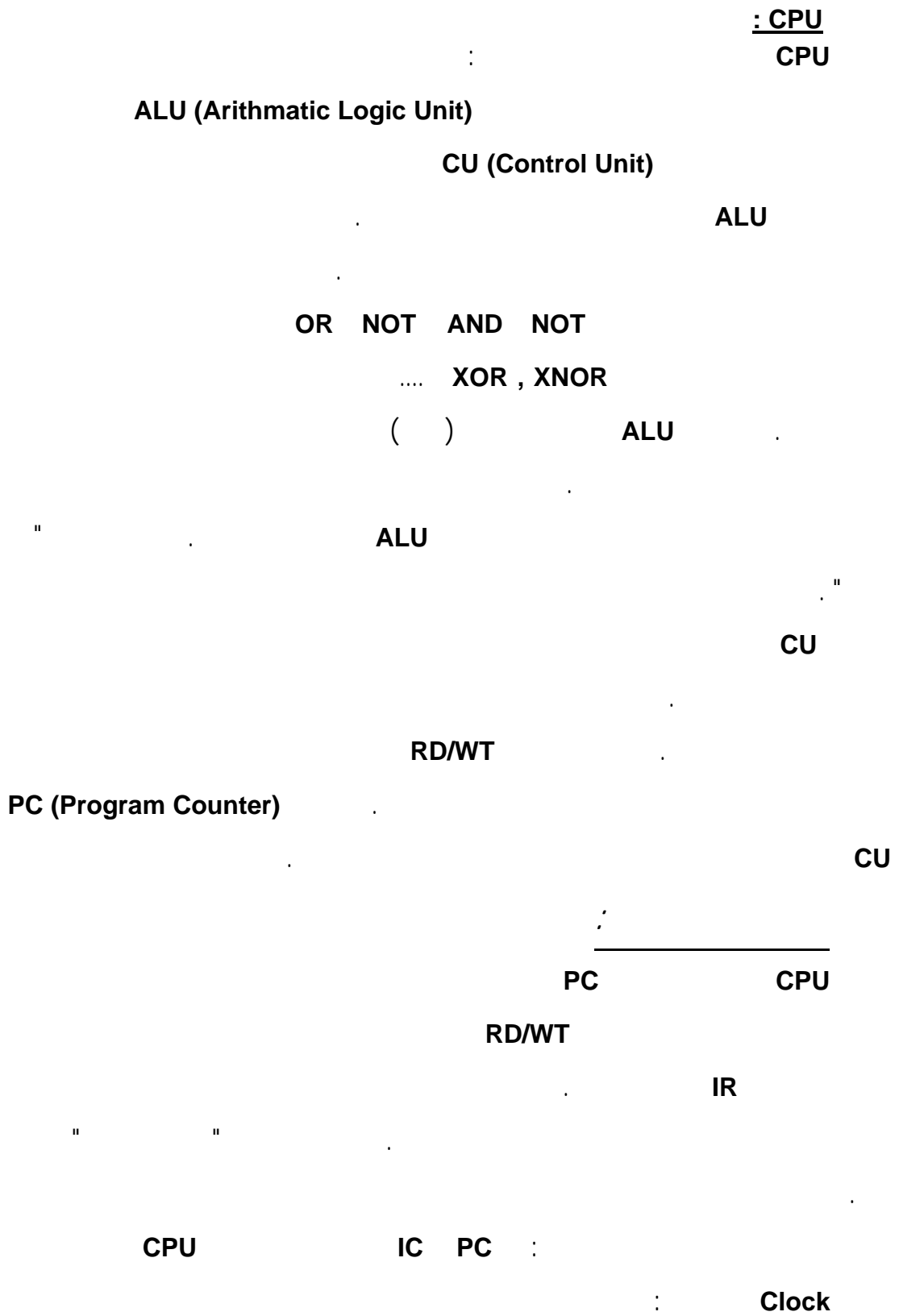
:
(Central Processing Unit)
(Memory)
(Input / Output)

CPU

)

I/O . (:)





: _____

RAM ROM

Random Access Memory
Read Only Memory

: ROM

ROM
PROM (Programmable ROM)
EPROM (Erasable PROM)
E2PROM (Electrical EPROM)

: PC

	ROM	ROM - BIOS
Setup	E2PROM	CMOS - ROM
	RAM	RAM

:

:

Drum

Disk

Hard
Floppy

Tape

:

(Track)

(Sector)

Size
Side
Density

High Double
Capacity = #Cyl * #Sec * #Side * 512

Protect

(Cache)

(RAM , ROM)

Scanner Mouse Keyboard)
(Card Reader
Monitor Printer Punch)
(Plotter

Fortran - Basic - Pascal - C - Cobol - PL/I - Fox

(Utility)

(Package)

Turbo Pascal Fox

Autocad C

Gwbasic , Qbasic , Turbo Basic

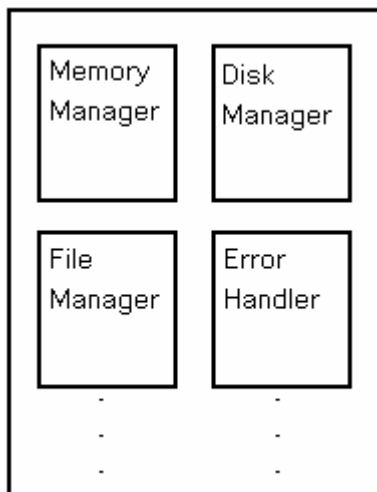
Basic

Foxpro

Turbo C Pascal

Quick Basic , Basica,

Loader
Assembler
Compiler
Interpreter
Editor
Operating System



()

PC

(Interactive On Line)

(Single User)

(Batch)

(Multi User)

CPU

Job

Job

.()
)

.(

P.M.

:

() **Unit**

:

:

ROM

Setup

Protect