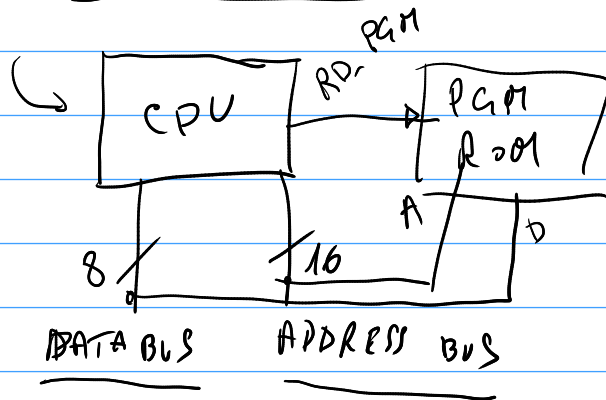


CISC PROCESSOR



MEMORIA

64KB

$2^{16} = 65536$

MEMORIA ORGANIZZATA IN BYTE

OPCODE DA 8bit

REGISTRI 16 BIT

A = Accumulatore

X = Usa generale

Y = " "

PC = Program counter

$A \leftarrow A \text{ op } \sim \parallel$

2 + 3

MOV A, #2 $A \leftarrow 2$

ADD #3 $A \leftarrow A + 3$

ADD X ; $A \leftarrow A + X$

1. RD-X = 1, WR-TEMP = 1
2. ALU-OP = 000, RD-ALU = 1, WR-A = 1, (RD-X = 0, WR-TEMP = 0)

OPCODES

OPCODE

01 MOV B, A, #imm8

02 MOV A, #imm16

MOV B, A, #0x40 \longrightarrow $\left[\begin{array}{l} 01 \\ 40 \end{array} \right]$ \leftarrow PC

MOV A, #0x1234 \longrightarrow $\left[\begin{array}{l} 02 \\ 34 \\ 12 \end{array} \right]$

MOV B, A, #0x40 01 40

MOV B, X, #0x22 03 22

ADD X 10