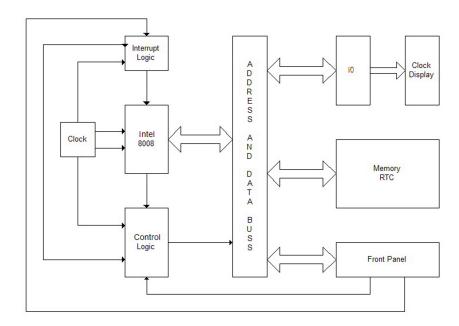


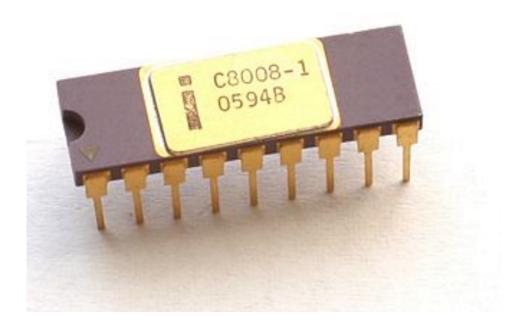
APXIZOYME

15:15

Address: 14 bits Data: 8 bits

Max. CPU clock rate 200 kHz to 800 kHz

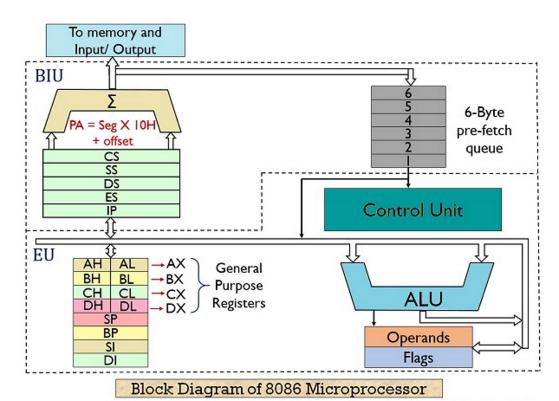




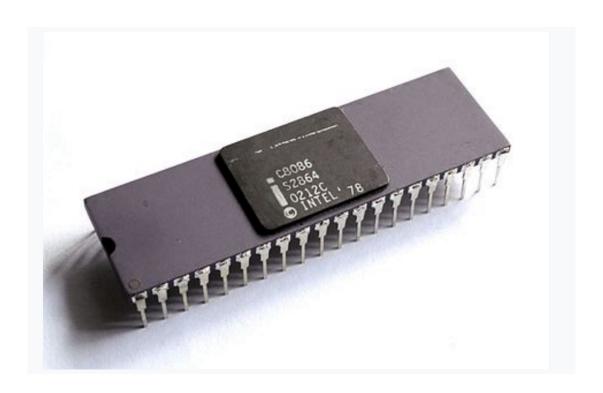
Address: 20 bits Data: 16 bits

Max. CPU clock rate 5-10MHz

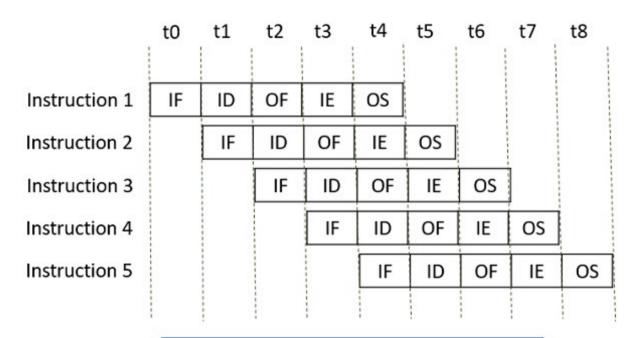
Ο 8086 είχε 8 καταχωρητές γενικής χρήσης 16-bit



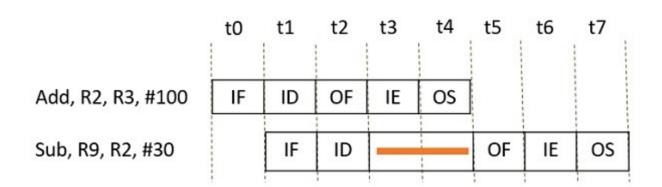
Electronics Desk



Instruction	Instruction	Operand	Instruction	Operand
Fetch	Decode	Fetch	Execute	Store

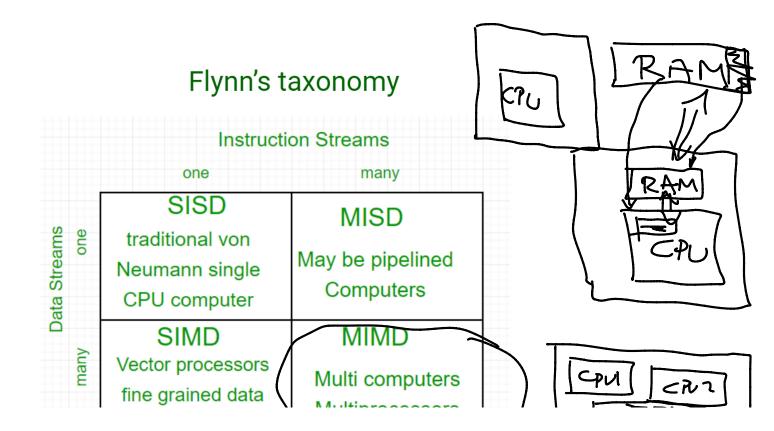


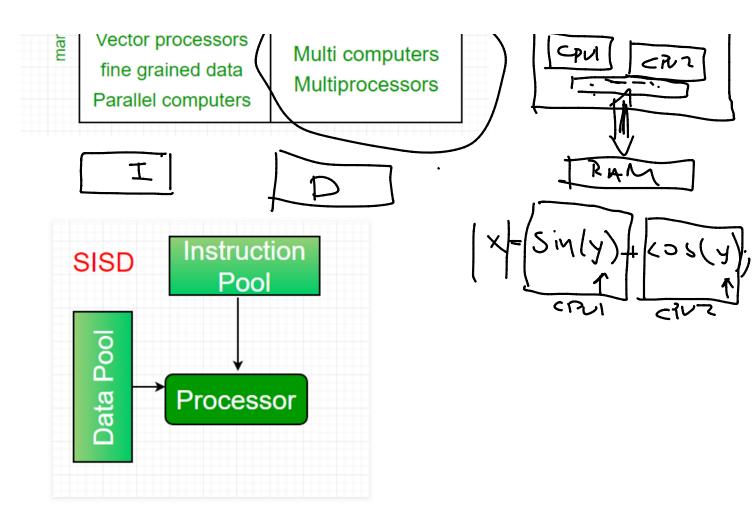
Pipelining of 5 Instructions

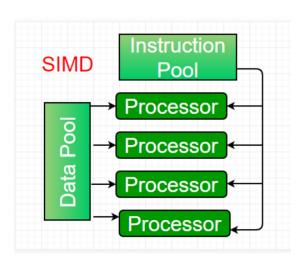


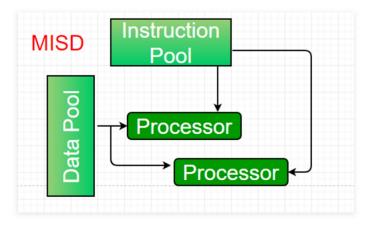
Data Dependency

CISC	RISC		
It is prominent on Hardware	It is prominent on the Software		
It has high cycles per second	It has low cycles per second		
It has transistors used for storing	More transistors are used for storing		
Instructions which are complex	memory		
LOAD and STORE memory-to-memory is	LOAD and STORE register-register are		
induced in instructions	independent		
It has multi-clock	It has a single - clock		

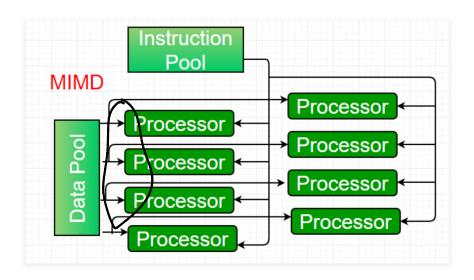








Example $Z = \sin(x) + \cos(x) + \tan(x)$



MIMD machines are broadly categorized into **shared-memory MIMD** and **distributed-memory MIMD** based on the way PEs are coupled to the main memory.