

SNS COLLEGE OF TECHNOLOGY



An Autonomous Institution Coimbatore-35

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING MICROPROCESSORS AND MICROCONTROLLERS

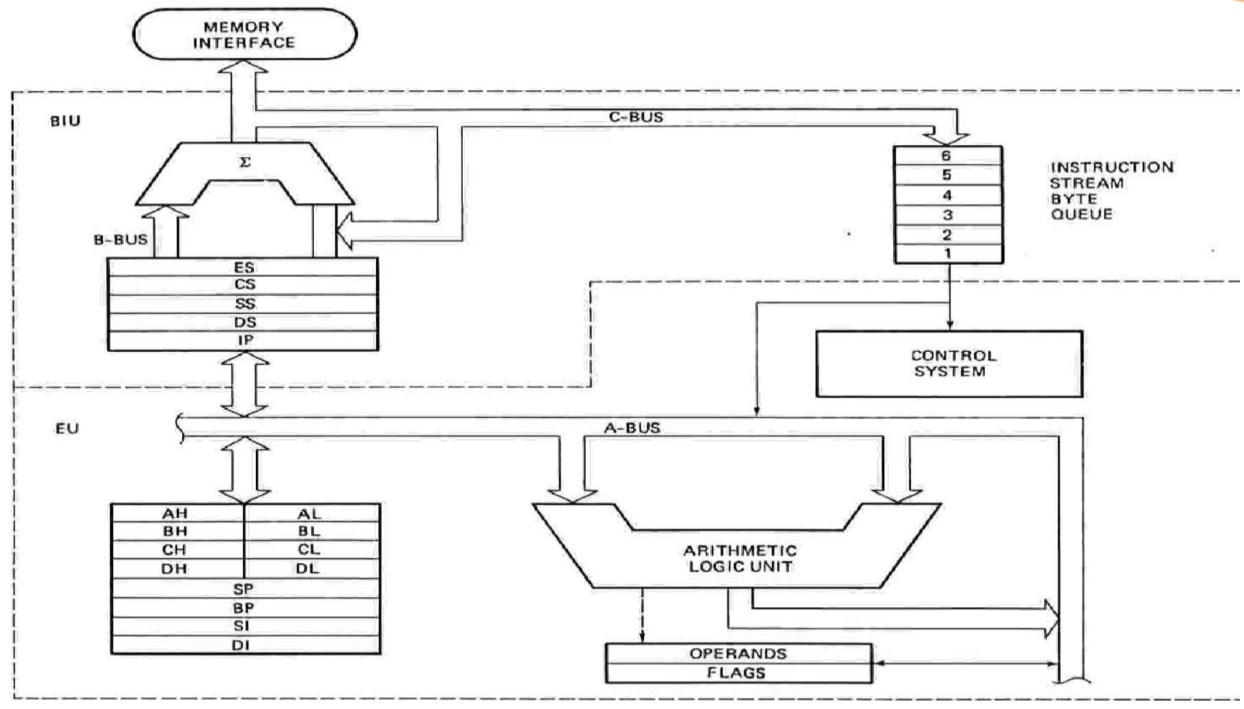
II YEAR/ IV SEMESTER

UNIT 1 - 8085 AND 8086 ARCHITECTURE

TOPIC – Introduction to 8086 Architecture

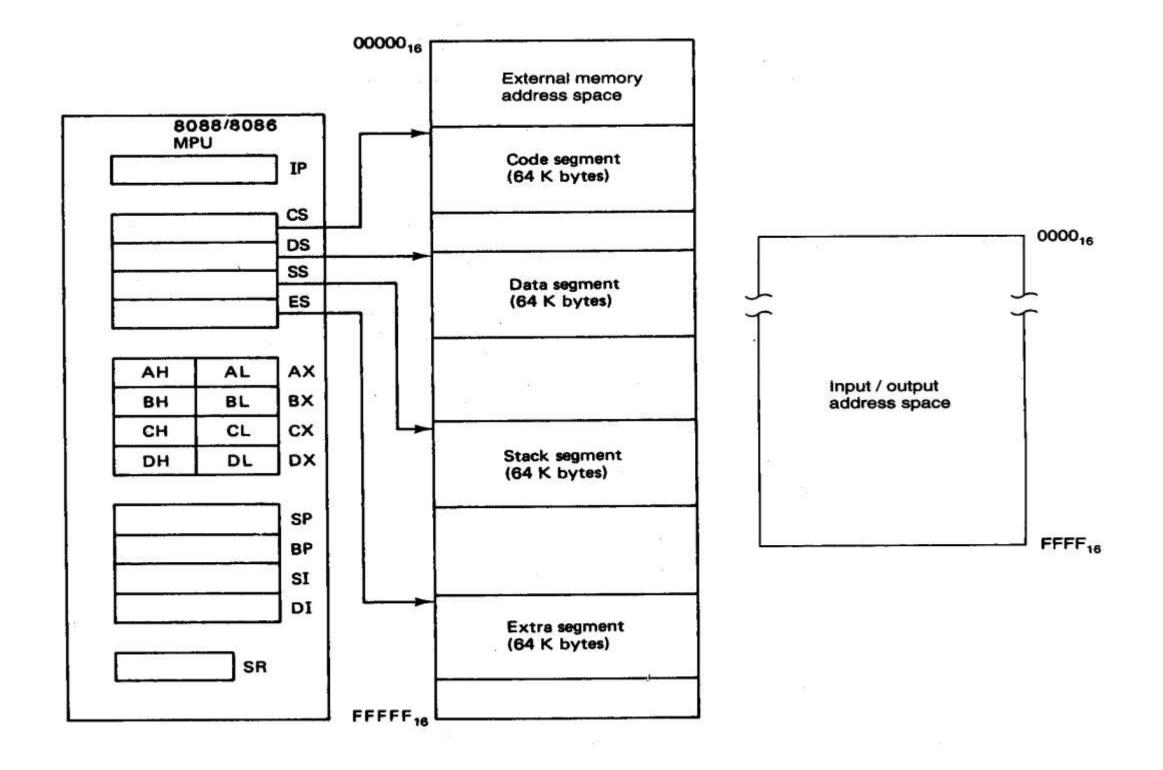
















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AX (Accumulator)				
AH		AL		
BX (Base Register)				
ВН		BL		
CX (Used as a counter)				
CH		CL		
DX (Used to point to data in I/O operations)				
DH		DL		





• AX

- -Accumulator Register
- -Preferred register to use in arithmetic, logic and data transfer instructions because it generates the shortest Machine Language Code
- -Must be used in multiplication and division operations
- -Must also be used in I/O operations

• **BX**

- -Base Register
- -Also serves as an address register





• **CX**

- -Count register
- -Used as a loop counter
- -Used in shift and rotate operations

• DX

- -Data register
- -Used in multiplication and division
- Also used in I/O operations





THANK YOU