

MICROPROCESSOR

BCA 3RD SEMESTER 2020

LECTURE-2

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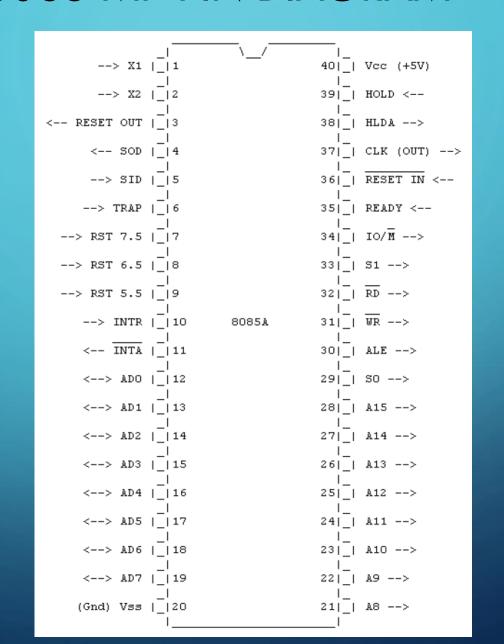
DEPARTMENT OF COMPUTER SCIENCE

KHARAGPUR COLLEGE

8085 MP HARDWARE DETAILS

- 8-bit general purpose μp
- Capable of addressing 64 k of memory
- Has 40 pins
- Requires +5 v power supply
- Can operate with 3 MHz clock

8085 MP PIN DIAGRAM



- A15-A8: Address Bus
- ADO 7: Address and Data bus
- ALE: Address Latch Enable

- SO, S1
- RD
- WR

S1 S0

0 0 HALT

0 1 WRITE

1 0 READ

1 1 FETCH

- HOLD
- HLDA: HOLD Acknowledge
- INTR: INTERRUPT Request
- INTA: INTERRUPT Acknowledge

RESTART INTERRUPTS

- RST 5.5
- RST 6.5
- RST 7.5

These three inputs have the same timing as I NTR except they cause an internal RESTART to be automatically inserted.

- TRAP
- RESET IN
- RESET OUT
- X1, X2
- CLK

- IO/M : Input-Output/Memory
- SID: Serial input data
- SOD: Serial output data
- Vcc: +5 Volt supply.
- Vss: Ground Reference

THANK YOU

End of Lecture 2

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