

# Microprocessor & Interfacing

## Lecture 3

### Architecture of 8085--1



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# Introduction



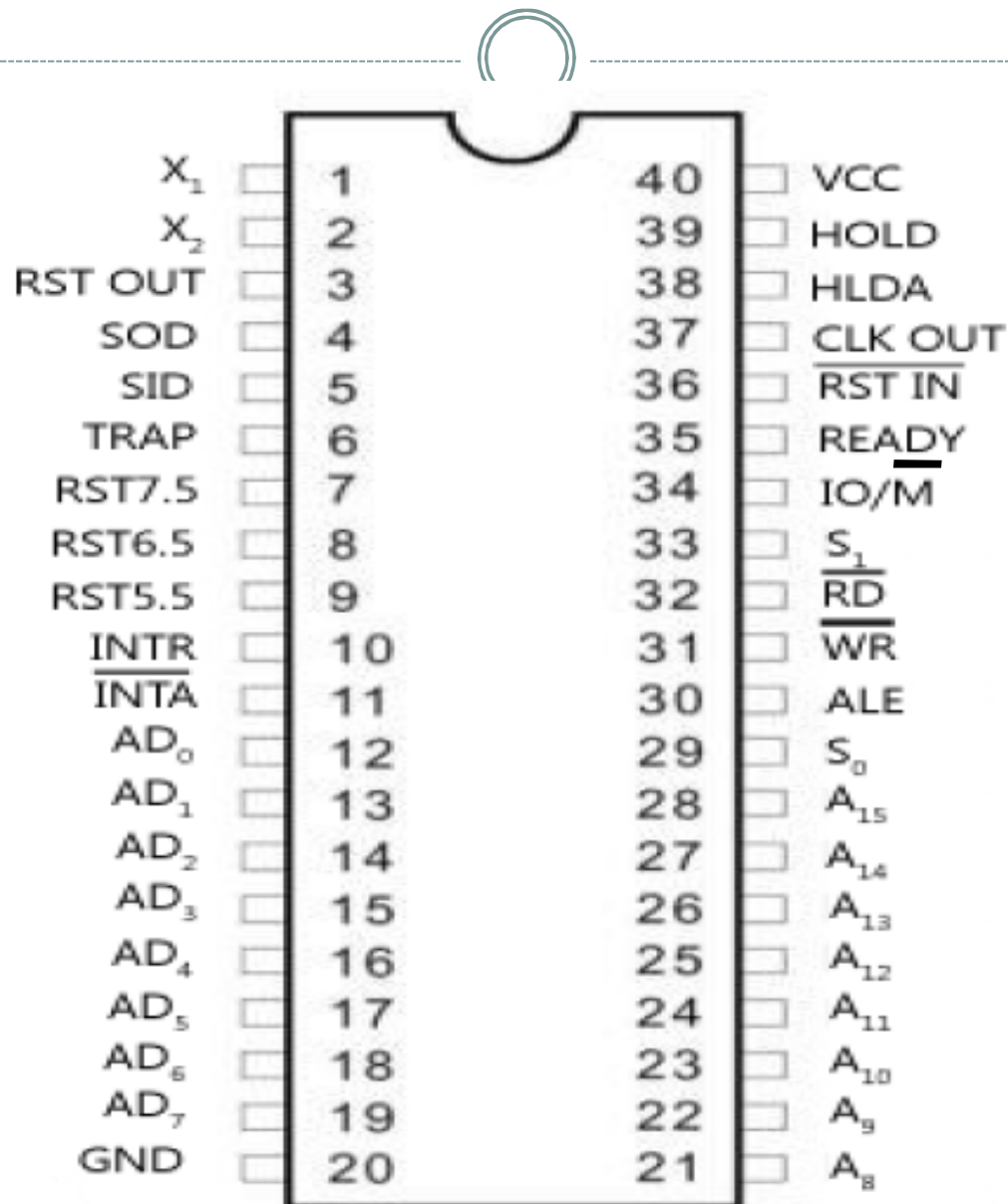
- A microprocessor is a multipurpose, programmable logic device that reads binary instructions from a storage device called memory accepts binary data as input and processes data according to those instructions and provides result as output.

# Applications of Microprocessor

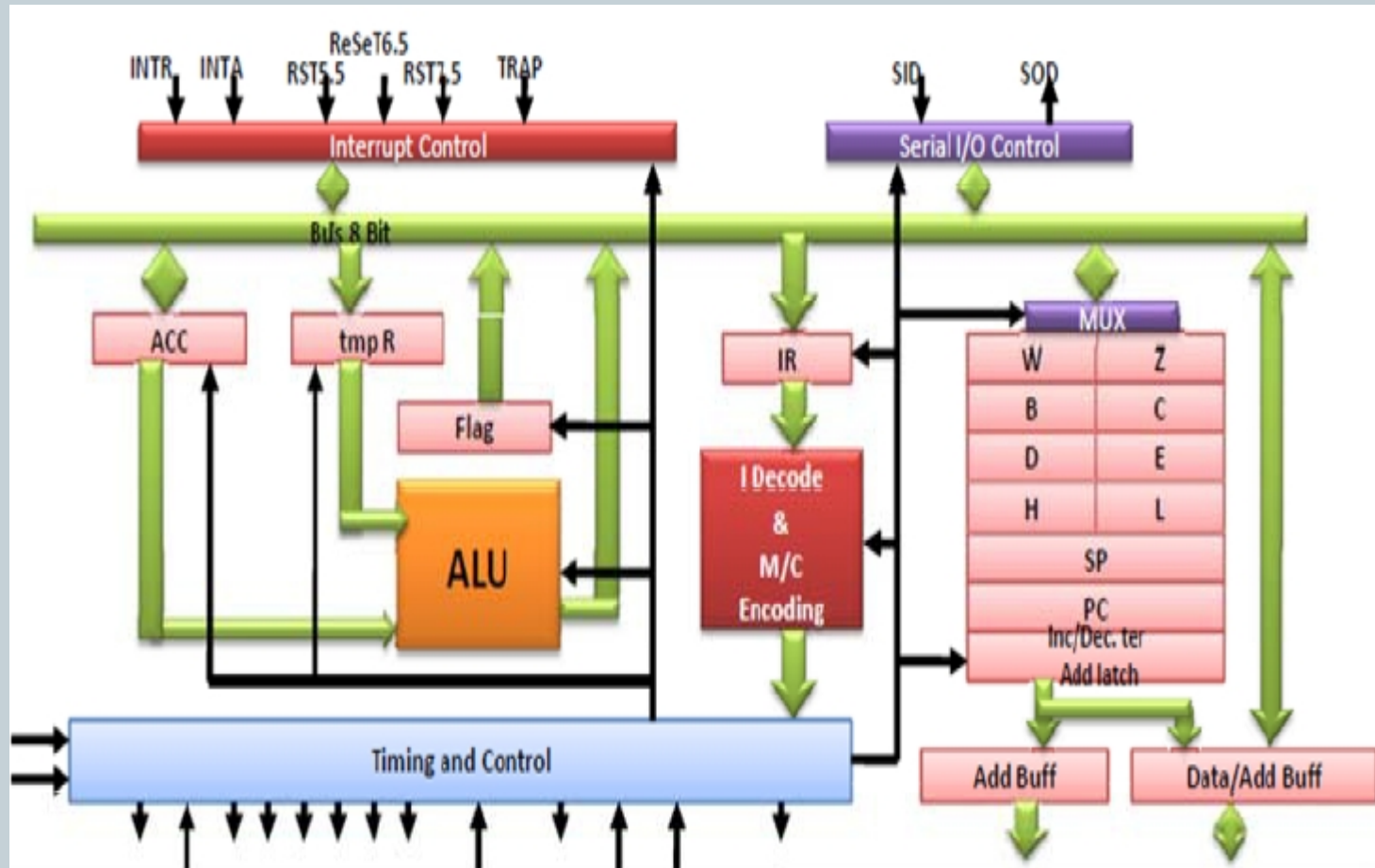


- It is used in many microprocessor based electronic devices
  - i. For measurements, display and control of current, voltage, temperature, pressure, etc.
  - ii. For traffic control and industrial tool control.
  - iii. For speed control of machines.

# 8085 Pin Diagram



# 8085 Architecture



# Features



- The features of INTEL 8085 are :
  1. It is an 8 bit processor.
  2. It is a single chip N-MOS device with 40 pins.
  3. It has multiplexed address and data bus.(AD0-AD7).
  4. It works on 5 Volt dc power supply.
  5. The maximum clock frequency is 3 MHz while minimum frequency is 500kHz.
  6. It provides 74 instructions with 5 different addressing modes.

# Power Supply & Clock Frequency



- 8085 require +5V power supply and 3MHz Clock frequency.