

Microprocessor & Interfacing

Lecture 3

Architecture of 8085--1



ECS DEPARTMENT
DRONACHARYA COLLEGE OF ENGINEERING

Contents



- Introduction
- Applications
- 8085 Pin diagram
- 8085 Architecture
- 8085 Features

Introduction



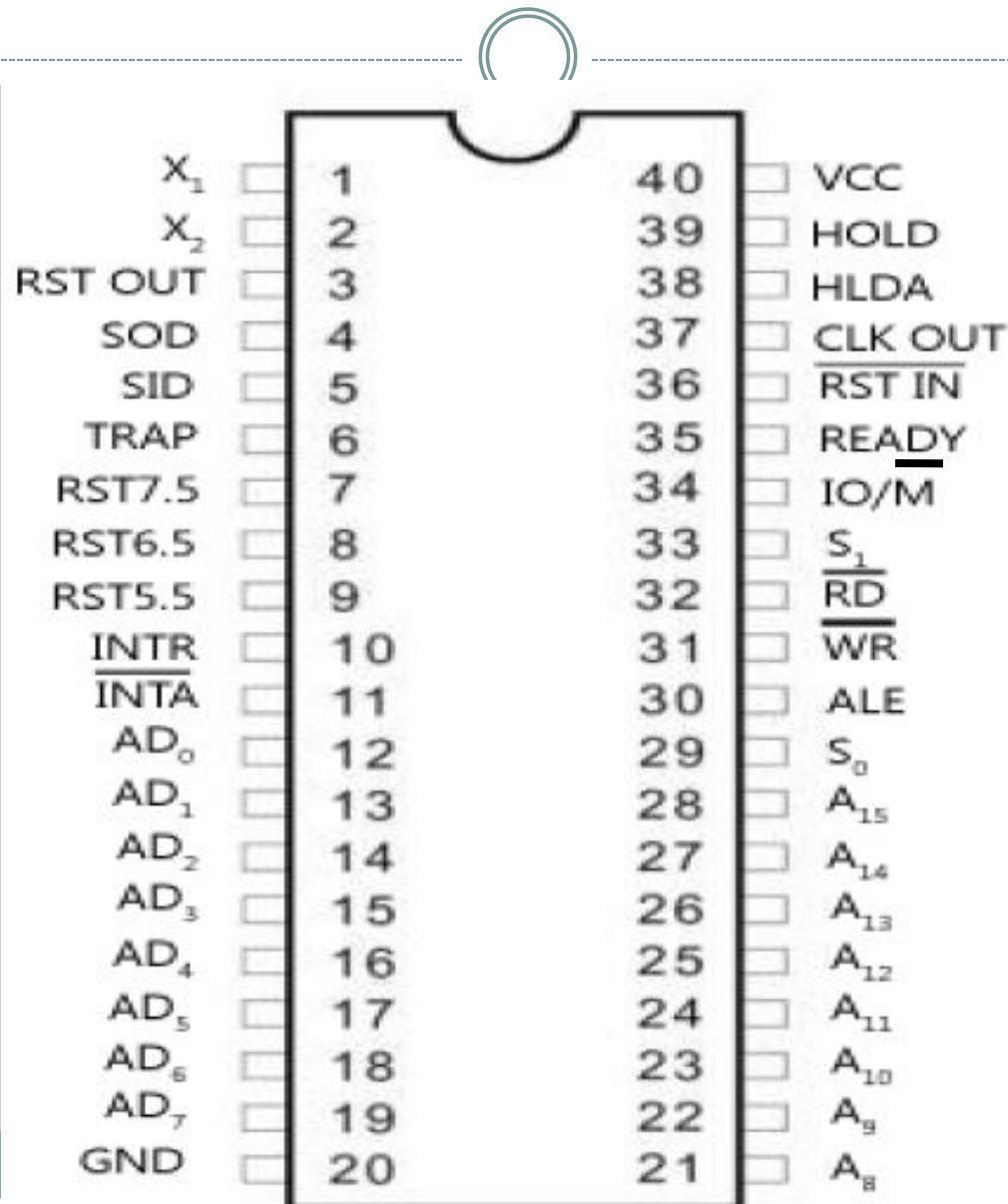
- A microprocessor is a multipurpose, programmable logic device that reads binary instructions from a storage device called memory accepts binary data as input and processes data according to those instructions and provides result as output.

Applications of Microprocessor

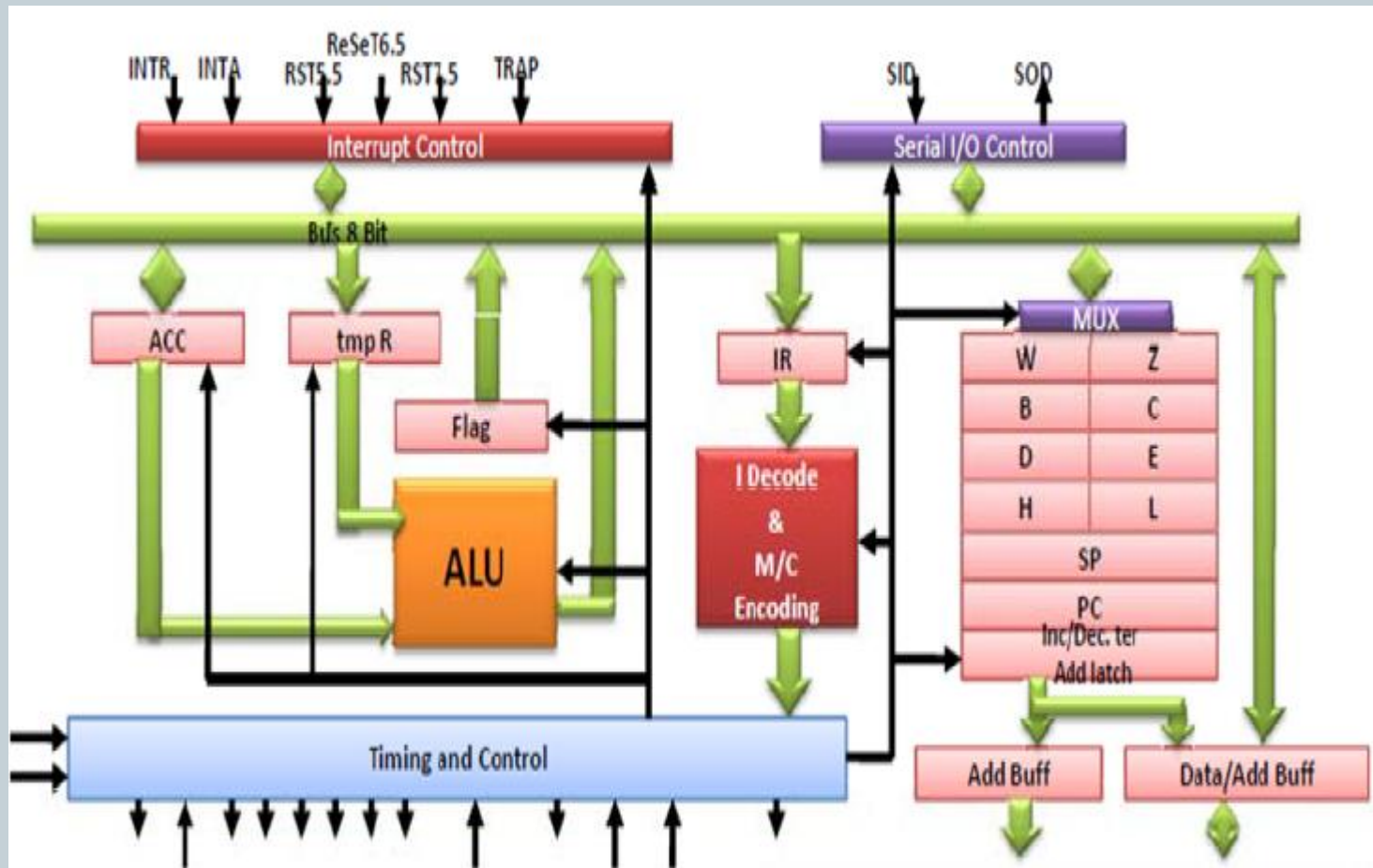


- It is used in many microprocessor based electronic devices
 - i. For measurements, display and control of current, voltage, temperature, pressure, etc.
 - ii. For traffic control and industrial tool control.
 - iii. For speed control of machines.

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.