ALIAH UNIVERSITY

MICROPROCESSOR & MICROCONTROLLER LAB

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LAB MANUAL

INTRODUCTION

Introduction to Microprocessor:

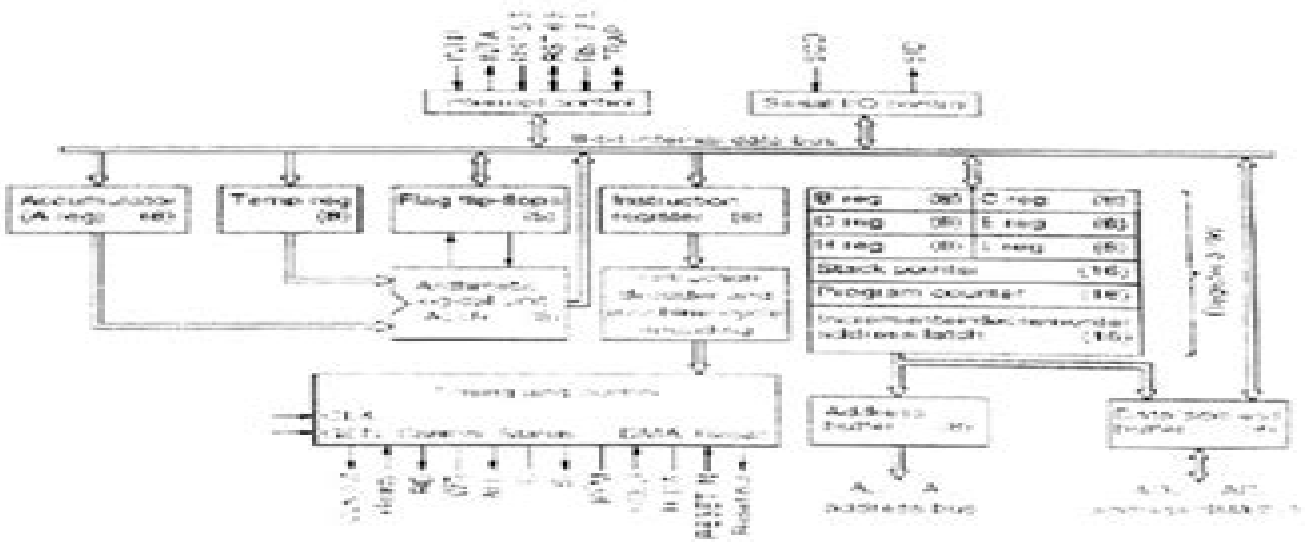
The microprocessor is a clock-driven semiconductor device consisting of electronic logic circuits manufactured by using either a large-scale integration (LSI) or very-large-scale integration (VLSI) technique.

The microprocessor is capable of performing various computing functions and making decisions to change the sequence of program execution. In large computers, a CPU implemented on one or more circuit boards performs these computing functions.

The microprocessor is in many ways similar to the CPU, but includes all the logic circuitry, including the control unit, on one chip.

The microprocessor can be divided into three segments for the sake of clarity, arithmetic/logic unit (ALU), register array, and control unit.

Internal architecture of 8085 microprocessor :



Microprocessor University Lab Training Manual

H Kauffman

Microprocessor University Lab Training Manual:

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education,1979 *Digital and Microprocessor Electronics for Scientific Application* Dennis Barnaal,1989 This book emphasizes practical application of the instrumentation of digital microprocessor electronics specifically for science students who need to use electronics in their work *Proceedings of the Fourteenth Hawaii International Conference on System Sciences* University of Hawaii,Association for Computing Machinery,University of Southwestern Louisiana,1981 Byte ,1978 **Resources in Education** ,1986 **Chilton's Instruments & Control Systems** ,1979 Instruments & Control Systems ,1979 *Research Awards Index* ,1981 *Microcomputer Applications* ,1989 *Subject Catalog* Library of Congress,1980 **Subject Catalog, 1980** Library of Congress,1980 **Book of Abstracts** American Chemical Society. Meeting,American Chemical Society,1978 **Education Year Book** ,1995

Scientific and Technical Books and Serials in Print ,1989 **The Conference on Computers in Physics Instruction** Edward F. Redish,John S. Risley,1990 Computers are revolutionizing activities in all areas of life Physics researchers accustomed to being at the forefront of technology have been deeply affected by the computer revolution This effect has serious implications for what is taught and how it is taught in the physics classroom This conference was organized to allow physics teachers and software developers in physics education to come together and see the state of the art in using computers to teach physics The conference included 39 invited lectures and 122 contributed presentations It introduced a number of innovations in the hope of increasing interactions and stimulating future contacts This document contains the text of the invited and contributed papers organized as follows 1 The Computer s Impact on the Physics Curriculum 2 Physics Computer Simulations 3 Computers in the Physics Laboratory 4 Physics Education Research and Computers 5 Computational Physics and Spreadsheets 6 Computer Tutorials in Physics 7 Physics Lecture Demonstrations Using Computers 8 Authoring Tools and Programming Languages 9 Computer Utilities for Teaching Physics 10 Computer Networking Workshops 11 Publishing Physics Software and 12 Videodiscs and Visualization for Physics Appended are author and general indexes a list of the contents of distributed software and a software order form CW **Proceedings of Frontiers in Education 1996** IEEE, Education Society Staff,Ieee Education Society,1996-11 **British Book News** ,1989 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1990 Issues for 1973 cover the entire IEEE technical literature Scientific and Technical Aerospace Reports ,1976-04 Scientific and Technical Organizations and Agencies Directory ,1985

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