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An 8-Bit Scientific Calculator Based Intel 8086 Virtual Machine Emulator

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Abstract

Microprocessors and their applications course is considered as a significant core course for electrical engineering students due to its potential impact into several real life applications such as complex calculations, interfacing, control and automation technology. In this paper, we propose an eight bit scientific calculator based Intel 8086 assembly language programming. The calculator were designed over the virtual machine for Intel 8086 microprocessor using EMU8086 emulator software. Several arithmetic and logic operations as well as trigonometric functions were implemented in this paper. Also, a plot function and integration of function tools are to be implemented and added as a separate modules for this design. This work was very beneficial in enhancing the students' skills in mathematics, engineering and computer programming which can be employed in designing a useful applications for users as well as the ability to apply numerical techniques and programming algorithms to design a small microprocessor-based system.

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Keywords: Intel 8086; EMU8086; Virtual Machine; Assembly Language; Scientific Calculator.

1. Introduction

In the late of 1978, Intel introduced the 8086 microprocessor as an enhanced product version of previous 8085 microprocessor. The product implementation depended on semiconductor process innovation, improved architecture, better circuit design, and more sophisticated software, yet upward compatibility not envisioned by the first designers was maintained [5].

Intel 8086 Microprocessor was designed to provide an order of magnitude increase in processing throughput over the older 808x. The processor was to be assembly-language-level-compatible with the 8080 so that existing 8080 software could be reassembled and correctly executed on the 8086 [1]. The 8086 processor architecture is described in terms of its memory structure, register structure, instruction

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Microprocessor 8086 Lab Manual With Flowcharts

G.T. Swamy



Microprocessor 8086 Lab Manual With Flowcharts:

Lab Manual 8088 and 8086 Microprocessors Singh, Walter A. Triebel, 1993-04-01 **Computers, Control & Information Theory**, 1981 *Subject Guide to Books in Print*, 1993 *Embedded Systems Programming*, 1994 **Byte**, 1988-10 **Applied Science & Technology Index**, 1979 *Paperbound Books in Print*, 1983 **Microprocessors & Introduction to Microcontroller** Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01

The book is written for an undergraduate course on the 8085 and 8086 microprocessors and 8051 microcontroller. It provides comprehensive coverage of the hardware and software aspects of 8085 and 8086 microprocessors and 8051 microcontroller. The book uses plain and lucid language to explain each topic. A large number of programming examples is the feature of this book. The book provides the logical method of describing the various complicated concepts and stepwise techniques for easy understanding, making the subject more interesting. The book is divided into three parts. The first part focuses on the 8085 microprocessor. It teaches you the 8085 architecture, pin description, bus organization, instruction set, addressing modes, instruction formats, Assembly Language Programming, ALP instruction, timing diagrams, interrupts, and interfacing 8085 with support chips, memory, and peripheral ICs 8251, 8253, 8255, 8259, and 8279. It also explains the interfacing of 8085 with data converters ADC and DAC and introduces a temperature control system design. The second part focuses on the 8086 microprocessor. It teaches you the 8086 architecture, register organization, memory segmentation, interrupts, addressing modes, operating modes, minimum and maximum modes, interfacing 8086 with support chips, minimum and maximum mode 8086 systems and timings. The third part focuses on the 8051 microcontroller. It teaches you the 8051 architecture, pin description, instruction set, programming 8051, and interfacing 8051 with external memory. It explains timers, counters, serial port, interrupts of 8051, and their programming. It also describes the interfacing of 8051 with keyboards, LCDs, and LEDs and explains the control of servomotor, stepper motors, and washing machine using 8051.

Microprocessor (8085) Lab Manual G.T. Swamy, 2006 **8086/8088 User's Manual** Intel Corporation, 1989 **Microprocessors and Embedded Systems with Lab Manual** Muhammad A. Mazidi, Rolin D. McKinlay, 2014-09-24 **Program Interfacing 8086/8088** Goody, 1992 **Solutions Manual to Accompany the 8086 Microprocessor** Kenneth J. Ayala, 1995 **Practical Electronics (Volume I)** Balamurugan A. Veeramanikandasamy T, 2019-12-28

Laboratory experiences are the part of science and technology curricula of higher education. This laboratory manual is intended to support the undergraduate and postgraduate students in the related fields of Electronics for practicing embedded system experiments. The chapters begin with an introduction and it covers the experiments for the 8085 Microprocessor, 8051 Microcontroller, and laboratory. Each experiment consists of aim, hardware, software requirements, algorithm, program, experimental results, and conclusion. For the most part, the lab manual includes the standard laboratory experiments that have been used by many academicians related to electronics departments for years. Over sixty-three practical experiments are described here to explore the practical knowledge of students on embedded systems. This book comprises two

chapters that are focused on the lab experiments of the 8085 Microprocessor 8051 Microcontroller laboratory This book helps to Promote experiential learning among the students Give practical or informal knowledge to understand how things work Know the interaction between software and hardware *Microprocessors and Microcontrollers* Atul P. Godse,Dr. Deepali A. Godse,2020-12-01 The book is written for an undergraduate course on the 8085 microprocessor and 8051 microcontroller It provides comprehensive coverage of the hardware and software aspects of 8085 microprocessor and 8051 microcontroller The book is divided into two parts The first part focuses on 8085 microprocessor It teaches you the 8085 architecture instruction set Assembly Language Programming ALP interfacing 8085 with support chips memory and peripheral ICs 8251 8253 8255 8259 8237 and 8279 It also explains the interfacing of 8085 with data converters ADC and DAC and introduces a temperature control system and data acquisition system design The second part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 with ALP and C and interfacing 8051 with external memory It also explains timers counters serial port and interrupts of 8051 and their programming in ALP and C It also covers the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors servo motors and introduces the washing machine control system design **Introduction to Computer Engineering** Richard E. Haskell,1993 This text is for first and second year undergraduates studying the fundamentals of computer engineering digital logic and microprocessors Assuming little background in computer systems the book presents the basics then illustrates them with and examination of 8086 architecture and programming The intention is to teach digital logic by using programmable logic devices PLDs and the CUPL language *8086/8088 User's Manual and Hardware Reference* Intel Corporation Staff,1989-01-01 *The 8086/8088 Primer* Stephen P. Morse,1982 *Assembly Programming and the 8086 Microprocessor* Douglas Samuel Jones,1988 The Intel 8086 microprocessor is one of the most popular of all microprocessors appearing in several version of the IBM Personal Computer as well as numerous PC compatibles or clones and the IBM PS 2 Models 25 and 30 **Microprocessors and Interfacing Techniques** Swapneel Chandrakant Mhatre,2014-01-04 The book is written as per the syllabus of the subject Microprocessors and Interfacing Techniques for S E Computer Engineering Semester II of University of Pune It focuses on the three main parts in the study of microprocessors the architecture the programming and the system design The 8086 microprocessor is described in detail along with glimpses of 8088 80186 and 80188 microprocessors The various peripheral controllers for 8086 88 are also discussed Other topics that are related to the syllabus but not explicitly mentioned are included in the appendices Key Features Programs are given and the related theory is discussed within the same section thereby maintaining a smooth flow and also eliminating the need for a separate section on the practical experiments for the subject of Microprocessors and Interfacing Laboratory Both DOS based programs as well as kit programs are given Algorithms and flowcharts are given before DOS based programs for easy understanding of the program logic

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