

# Instruction Set of 8086

- An instruction is a binary pattern designed inside a microprocessor to perform a specific function.
- The entire group of instructions that a microprocessor supports is called **Instruction Set**.
- 8086 has more than **20,000** instructions.

# 8086 Instruction Set Ppt

**Glenn Mapes**



## 8086 Instruction Set Ppt:

**An Analysis of Instruction Set Usage of the Intel 8086/88 Microprocessor** Thomas LeRoy Adams, 1988    An Instruction Set Simulator for the 8086 16-bit Microprocessor Glenn Mapes, 1985    8086/8088 User's Manual Intel Corporation, 1989    **The 8086 and 80286 Microprocessors** Avtar Singh, Walter A. Triebel, 1990    **The 8086 Primer** Stephen P. Morse, 1980    Microprocessor 8086 : Architecture, Programming and Interfacing Mathur Sunil, 2010-12

Primarily intended for the undergraduate students of electronics and communication engineering computer science and engineering and information technology this book skilfully integrates both the hardware and software aspects of the 8086 microprocessor It offers the students an up to date account of the state of the art microprocessors and therefore can be regarded as an incomparable source of information on recently developed microprocessor chips The book covers the advanced microprocessor architecture of the Intel microprocessor family from 8086 to Pentium 4 The text is organized in four parts Part I Chapters 1 7 includes a detailed description of the architecture organization instruction set and assembler directives of microprocessor 8086 Part II Chapters 8 11 discusses the math coprocessor multiprocessing and multiprogramming the different types of data transfer schemes and memory concepts Part III Chapters 12 15 covers programmable interfacing chips with the help of extensive interfacing examples Part IV Chapters 16 18 deals with advanced processors from 80186 to Pentium 4 This well organized and student friendly text should prove to be an invaluable asset to the students as well as the practising engineers

**KEY FEATURES** Gives elaborate programming examples to develop the analytical ability of students Provides solved examples covering different types of typical interfacing problems to develop the practical skills of students Furnishes chapter end exercises to reinforce the understanding of the subject    Microprocessor X86 Programming K. R. Venugopal, 1995 Features And Syntax Of Assembly Language Programming 8086 Internal Architecture Programming Features And Instruction Set Ibm Pc Architecture And Programming Software Interrupts In Assembly And C Language Exclusive Chapter On Advanced Processors Including The Pentium And P6 Wide Range Of Complete Programming Solutions In Assembly And C Language 8087 Architecture Instruction Set And Programming Reference On Dos And Bios Interrupts Numerous Programming Examples On Console I O Printer Output File And Directory Operations Command Line Arguments Disk Device Drivers Multi Tasking Clock Data Conversion Searching Sorting Matrix Operations String Operations Linked Lists Stacks Queues And Trees    **The 8088 and 8086 Microprocessors** Walter A. Triebel, Avtar Singh, 2003 Introduction to microprocessors and microcomputers Software architecture of the 8088 and 8086 microprocessors Assembly language programming Machine language coding and the debug software development program of IBM PC 8088 8086 programming integer instructions and computations 8088 8086 programming control flow instructions and program structures Assembly language program development with masm The 8088 and 8086 microprocessors and their memory and input output interfaces Memory devices circuits and subsystem design Input output interface circuits and LSI

peripheral devices Interrupt interface of the 8088 and 8086 microprocessors Hardware of the original IBM PC microcomputer PC bus interfacing circuit construction testing and troubleshooting Real mode software and hardware architecture of the 80286 microprocessor The 80386 80486 and pentium processor families software architecture The 80386 80486 and pentium processor families hardware architecture

**An Introduction to 8086/8088 Assembly Language Programming** Thomas P. Skinner, 1985 This hands on guide helps develop programming skills on the 8086 based microcomputers Introduces readers to assembly language programming through a comprehensive set of input output procedures and useful subroutines for the most popular 8086 based operating systems Covering fundamental data types segmentation assembler operation and modular programming these routines let users apply assembly language shortcuts and programming techniques to specific applications Offers a brief outline of the design of the 16 bit microprocessor and the architecture of the 8086 including the 80286 family of chips presents the essentials on binary and hexadecimal numbers and shows how to write and execute a program The complete instruction set is presented in the last nine chapters

**Elements of Microprocessors** Atul P. Godse, 2007 8085 Microprocessor Basic 8085 Microprocessor architecture and its functional blocks 8085 Microprocessor IC pinouts and signals address data and control buses clock signals instruction cycles machine cycles and timing states instruction timing diagram Programming of 8085 Microprocessor Basic instruction set of 8085 addressing modes writing assembly language programs looping counting and indexing operations stacks and subroutines conditional call and return instructions debugging programs 8085 Interfacing and Interrupts Bus interfacing concepts timing for the execution of input and output I/O instructions I/O address decoding memory and I/O interfacing memory mapped I/O interfacing of matrix input keyboard and output display Serial I/O lines of 8085 and the implementation asynchronous serial data communication using SID and SOD lines interrupt structure of 8085 RST restart instructions vectored interrupt interrupt process and timing diagram of interrupt instruction execution 8259A interrupt controller principles block I/O data transfer direct memory access techniques Programmable Interface and Peripheral Devices Programming and applications of 8455 8156 programmable I/O ports and timer 8255A programmable peripheral interface 8253 8254 programmable interval timer 8257 direct memory access controller 8279 programmable keyboard display interface 8086 and 8088 Microprocessors Architecture and organization of 8086 8088 microprocessor family bus interface unit 8086 8088 hardware pin signals timing diagram of 8086 family microprocessors simplified read write bus cycles 8086 minimum and maximum modes of operation 8086 8088 memory addressing address decoding memory system design of 8086 family timing considerations for memory interfacing input output port addressing and decoding introduction to 8087 floating point coprocessor and its connection to host 8086 8086 Assembly Language Programming Addressing modes 8086 instruction formats and instruction set data transfer arithmetic bit manipulation string program execution transfer and processor control instructions machine codes for 8086 instructions assembly language syntax assembler directives initialization instructions simple sequential and looping

programs in assembly language debugging assembly language programs Advanced Assembly Level Programming Conditional jumps and IF THEN ELSE WHILE DO REPEAT UNTIL delay loop programs implementing procedure calls passing parameters using pointers and stack reentrant and recursive procedures calling FAR procedures assembler MACRO instructions software interrupts and interrupt service routines software interrupt applications such as in basic input output system of IBM PC computer high level C language calls to assembly language programs with an illustrative example     Introduction To Microprocessors 8085 And 8086 Singh,Rachhpal,2013 Introduction to Microprocessors Microprocessor Architecture 8085 Microprocessors 8085 Instruction Classification 8086 Microprocessor 8086 Instruction Set Assembly Language I Assembly Language II 8255 Programmable Peripheral Interface 8253 8254 Programmable Timer Counter 8259 Programmable Interrupt Controller 8251 USART RS232C     **Interfacing Through Microprocessors** E. Srinivasa Reddy,2005 Introduction Architecture of 8086 Instruction set of 8086 Machine Level Programs Programming with Assembler 8086 Based C System System Bus Structure 8255 Programmable Peripheral Serial Communication Interfaces Interrupts Microcontrollers Lab Exercises Previous Exams Question Papers BIT Bank

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