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Soumitra Kumar Mandal, Microprocessor & Microcontroller Architecture, Programming & Interfacing using 8085,8086,8051, McGraw Hill Edu,2013.  
Yu-Cheng Liu and Glenn A.Gibson, "Microcomputer Systems: The 8086/8088 Family Architecture, Programming and Design", Second Edition, Prentice-Hall of India, 2007.

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The Microprocessor-based systems are relatively expensive due to the need for external RAM, ROM, etc. while the microcontroller is a single inexpensive chip that can perform the task on its own. Differences based on Limited and Upgradeable Memory

## ~~Difference Between Microprocessor and Microcontroller~~

An integrated circuit that performs the functions as the central processing unit in which the inputs and the outputs are not defined is known as a microprocessor. The chip is programmable which operates based on the applied inputs. The input bits applied are in the form of binary.

## ~~Microprocessor and Microcontroller : Their Differences~~

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3.micro computer system 8086/8088 family architecture,programming and design,- by Liu and GA Gibson,PHI 2nd ed. 4.microcontrollers and applications, Ajay V Deshmukh , TMGH,2005. 5.the 8085 Microprocessor: Architecture ,programming and interfacing- K Uday Kumar,BS Umashankar,2008,pearson.

## ~~Microprocessor and Microcontroller (MPMC) Pdf Notes — SW~~

A microcontroller is a computer on a chip in which many support devices like RAM, ROM, timers, counters, I/O peripherals are fixed in one IC. Most of the microcontrollers uses RISC architecture. But, some microcontrollers like 8051, Motorola uses CISC architecture. Microcontrollers is mainly designed to control specific electronic applications.

## ~~Difference Between Microprocessor and Microcontroller~~

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A microprocessor is a multipurpose, programmable, clock-driven, register-based electronic device that reads binary instructions from a storage device called memory, accepts binary data as input and processes data according to those instructions and provide results as output.

~~Microprocessor Tutorials — GeeksforGeeks~~

MICROPROCESSORS AND MICROCONTROLLERS: ARCHITECTURE, PROGRAMMING AND SYSTEM DESIGN 8085, 8086, 8051, 8096: Author: KRISHNA KANT: Publisher: PHI Learning Pvt. Ltd., 2007: ISBN: 8120331915, 9788120331914: Length: 748 pages: Subjects

~~MICROPROCESSORS AND MICROCONTROLLERS: ARCHITECTURE ...~~

A microprocessor is a controlling unit of a micro-computer, fabricated on a small chip capable of performing Arithmetic Logical Unit (ALU) operations and communicating with the other devices connected to it. In this tutorial, we will discuss the architecture, pin diagram and other key concepts of microprocessors. Audience

~~Microprocessor Tutorial — Tutorialspoint~~

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Microprocessors and Microcontrollers: Architecture, Programming & Interfacing using 8085, 8086, and 8051 [S.K Mandal] on Amazon.com.

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When a microprocessor is executing a main program and whenever an interrupt occurs, the microprocessor shifts the control from the main program to process the incoming request. After the request is completed, the control goes back to the main program. There are 5 interrupt signals in 8085 microprocessor: INTR, RST 7.5, RST 6.5, RST 5.5, TRAP.

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Microcontrollers integrate a microprocessor with peripheral devices in embedded systems. Systems on chip (SoCs) often integrate one or more microprocessor or microcontroller cores. Speed and power considerations. Microprocessors can be selected for differing applications based on their word size, which is a measure of their complexity.

~~Microprocessor — Wikipedia~~

1) 8085 Architecture: The architecture of 8085 consist various components like: 1. Accumulator & Register sets. 2. Program counter and stack pointer. 3. Flag Register. 4. ALU. 5. Instruction decoder and machine cycle encoder. 6. Address buffer. 7. Address/data buffer. 8. Increment/Decrement latch. 9. Interrupt control. 10. Serial I/O like SOD,SID. 11.



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