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
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*is the Difference Between a  
Microprocessor,  
Microcontroller and a  
Microcomputer? EEVblog #635*

*- FPGA's Vs Microcontrollers  
How Microcontrollers Work*

**What is a Microcontroller?**

**What is Embedded systems? in**

**tamil.** *Basics of Embedded  
System in Tamil 8051*

~~Architecture by Dr Ritula  
Thakur PIC 18F~~

*Microcontroller Architecture  
| 8051 MicroController*

*Architecture in Tamil*

~~Introduction To  
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Kant. This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers, their principles and applications. It comprehensively presents the material necessary for understanding the internal architecture as well as system design aspects of Intel's legendary 8085 and 8086 microprocessors and Intel's 8051 and 8096 microcontrollers.

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This book provides coverage on basic concepts of Microprocessors and



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Microcontrollers Notes PDF.  
In these "Microprocessor And  
Microcontrollers Notes PDF",  
we will study internal  
architecture, programming  
model of Intel  
Microprocessors (8086 -  
Pentium), and assembly  
language programming using  
an assembler. Students will  
also learn the interfacing

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of memory and I/O devices  
with a microprocessor.

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Microprocessor is considered a product of combined developments in the fields of computer architecture and Integrated Circuit (IC) fabrication. It has made the concept of personal computing very feasible. The Microcontroller is often considered as a byproduct in the development of microprocessor.

~~Difference Between  
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Architecture  
REFERENCES: Microprocessors  
and Microcontrollers Notes -  
MPMC Notes - MPMC Pdf Notes.

1.advanced microprocessors  
and peripherals- A .K Ray  
and K.M . Bhurchandani, TMH,  
2nd ed,2006. 2.the 8051  
microcontrollers,  
architecture and programming  
and applications- K. Uma  
Rao,Andhe Pallavi,Pearson  
2009

~~Microprocessor and  
Microcontroller (MPMC) Pdf  
Notes - SW~~

In PIC microcontroller  
architecture, the  
architecture ROM stores the  
instructions or program,  
according to the program the  
microcontroller acts. The

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ROM is also called as program memory, wherein the user will write the program for microcontroller and saves it permanently, and finally the program is executed by the CPU.

## ~~PIC Microcontroller : Architecture and Its Applications~~

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Microcontrollers are based on Harvard architecture where program memory and data memory are separate while microprocessors are based on von Neumann model where program and data are stored in same memory module.

~~What is the difference  
between microprocessor and  
...~~

Below is the list of microprocessor and microcontrollers book recommended by the top university in India. Krishna

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Kant, "Microprocessor and Microcontrollers", Eastern Company Edition, Prentice Hall of India, New Delhi, 2007. R.S. Gaonkar, „Microprocessor Architecture Programming and Application“, with 8085, Wiley Eastern Ltd., New Delhi ...

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SHAKTI is the first open-source initiative by the Reconfigurable Intelligent Systems Engineering (RISE) group at Indian Institute of Technology, Madras to develop the first indigenous industrial-grade processor.

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The aim of SHAKTI initiative includes building an opensource production-grade processor, complete System on Chips (SoCs), development boards and SHAKTI based software platform.

~~SHAKTI – Microprocessor & Microcontroller – Wikipedia~~

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Architecture, Programming & Interfacing using 8085, 8086, and 8051 by S.K Mandal (ISBN: 9780071329200) from Amazon's Book Store.

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## ~~Architecture ...~~

The microcontroller is the technology developed after the microprocessor and overcome the shortcomings of the microprocessor. The microcontroller chip is highly integrated enabled with CPU, memory (RAM and ROM), registers, interrupt control units, and dedicated I/O ports. It seems to be a superset of the microprocessor.

## ~~Difference Between Microprocessor and Microcontroller ...~~

The microprocessors 8086, 8088 and 80286 are 16-bit machines. The size of registers in microprocessors



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80386 and 80586 has extended to 32-bits. Note: In modern 64-bit Intel processors, the registers are of 64-bits size which are RAX, RBX, RCX, and RDX. The 32-bit registers are only available in 80386 architecture and above.

## ~~8086 Microprocessor Architecture~~

### ~~Microcontrollers Lab~~

The main difference between a microcontroller and microprocessor is the presence of necessary peripheral or components like RAM, ROM, EEPROM, etc inside a single IC chip. Due to the compact design of microcontroller, they are

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Microcontrollers  
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used in mini portable  
electronic gadgets, toys and  
devices.

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