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
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A Microprocessor is an important part of a computer architecture without which you will not be able to perform anything on your computer. It is a programmable device that takes in input perform some arithmetic and logical operations over it and produce desired output. In simple words, a Microprocessor is a digital device on a chip which can fetch instruction from memory, decode and execute them and give results.

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## **Chapter 1 - Introduction to Microprocessors**

The first generation microprocessors were introduced in the year 1971-1972 by Intel Corporation. It was named Intel 4004 since it was a 4-bit processor. It was a processor on a single chip. It could perform simple arithmetic and logical operations such as addition, subtraction, Boolean OR and Boolean AND.

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A microprocessor is a computer processor that incorporates the functions of a central processing unit on a single (or more) integrated circuit (IC) of MOSFET construction. The microprocessor is a multipurpose, clock-driven, register-based, digital integrated circuit that accepts binary data as input, processes it according to instructions stored in its memory, and provides results (also in binary form) as output.

## **Microprocessor - Wikipedia**

Introduction • Microprocessor is an electronic chip that functions as the central processing unit (CPU) of a computer • In other words, we can call microprocessor as the heart of any computer system. • Some may call the microprocessors as the brain of the computers. • The microprocessor based systems with limited resources are called as microcomputers.

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(Bernstein, p.202) INTEL (8-BIT MICROPROCESSORS) : The 8080, designed as a successor to Intel's 8008, was the first powerful microprocessor introduced on the market.

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Introduction to 8086 microprocessor 1. Introduction to 8086/8088 Microprocessor - General Facilities - BIU and EU - Data Registers - Segment Registers - Index Registers - Pointer Registers - Flag Register - Memory Addressing - Physical Memory Address Calculations.

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lines of address bus and 8 lines of data bus are multiplexed AD0 - AD7.

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