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Intro to
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Architecture and organization. Computer architecture deals with the design of computers, data storage devices, and networking components that store and run programs, transmit data, and drive interactions between computers, across networks, and with users. Computer architects use parallelism and various strategies for memory organization to design computing systems

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with very high performance.

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Computer Architecture

Computer Organization; 1.

Architecture describes what
the computer does.

Organization describes how
it does it. 2. Computer

Architecture deals with
functional behavior of

computer system. Computer
Organization deals with

structural relationship. 3.

In above figure, its clear
that it deals with high-

level design issue.

~~Differences between Computer
Architecture and Computer~~

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Whereas Organization expresses the realization of architecture. While

designing a computer system architecture is considered first. An organization is done on the basis of architecture. Computer Architecture deals with high-level design issues.

Computer Organization deals with low-level design issues. Architecture involves Logic (Instruction sets, Addressing modes, Data types, Cache optimization) Organization involves Physical Components (Circuit design, Adders, Signals, Peripherals)

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Computer Architecture.

Computer Architecture is a blueprint for design and implementation of a computer system. It provides the functional details and behaviour of a computer system and comes before computer organization.

~~Differences between Computer
Architecture and Computer~~

~~...~~

Definition: Computer Organization and Architecture is the study of internal working, structuring and implementation of a computer

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system. Architecture in computer system, same as anywhere else, refers to the externally visual attributes of the system.

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Computer Organization and Architecture Tutorial provides in-depth knowledge of internal working, structuring, and implementation of a computer system. Whereas, Organization defines the way the system is structured so that all those catalogued tools can be used properly. Our Computer Organization and Architecture Tutorial

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Computer architecture is the organization of the components making up a computer system and the semantics or meaning of the operations that guide its function. As such, the computer architecture governs the design of a

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family of computers and defines the logical interface that is targeted by programming languages and their compilers.

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It defines how computer

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systems, platforms and programs operate. In other words, computer architecture defines system's functionality, design, and performance. Creating a computer's architecture requires IT professionals to first determine the needs of users, technology limitations and process requirements.

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In computer engineering, computer architecture is a set of rules and methods that describe the functionality, organization, and implementation of

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Organization systems. Some definitions of architecture define it as describing the capabilities and programming model of a computer but not a particular implementation.

~~Computer architecture—
Wikipedia~~

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There are two major approaches to processor architecture: Complex Instruction Set Computer (CISC, pronounced "Sisk") processors and Reduced Instruction Set Computer (RISC) processors. Classic CISC processors are the Intel x86, Motorola 68xxx, and National Semiconductor 32xxx processors, and, to a lesser degree, the Intel Pentium. Common RISC architectures are the Freescale/IBM PowerPC, the MIPS architecture, Sun's SPARC, the ARM, the Atmel

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~~1. An Introduction to Computer Architecture — Designing ...~~

This course will discuss the basic concepts of computer architecture and organization that can help the participants to have a clear view as to how a computer system works. Examples and illustrations will be mostly based on a popular Reduced Instruction Set Computer (RISC) platform.

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Computer design is concerned with the hardware design of the computer. Once the computer specifications are formulated, it is the task of the designer to develop hardware for the system.

Computer design is concerned with the determination of what hardware should be used and how the parts should be connected.

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