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Architecture and

organization.

Computer architecture

deals with the design

of computers, data

storage devices, and

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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 with very

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high performance.

Architecture

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Organization; 1.

Architecture describes

what the computer

does. Organization

describes how it does

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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

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Architecture and  
Computer ...

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

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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,

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(Adders, Signals,  
Peripherals)

Computer

Architecture VS

Computer

Organization

javatpoint

Computer

Architecture.

Computer

Architecture is a  
blueprint for design  
and implementation of



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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

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

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the way the system is structured so that all those catalogued tools can be used properly. Our Computer Organization and Design Principles And Applications By Govindarajulu includes all topics of such as introduction, ER model, keys, relational model, join operation, SQL, functional

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dependency,  
transaction,  
concurrency control,  
etc.

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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 family of computers and defines the logical interface that is



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targeted by  
programming  
languages and their  
compilers.

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It defines how  
computer systems,  
platforms and

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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

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Architecture  
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Architecture &  
Organization: HD ...

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

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computer systems.

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

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Computer architecture

—Wikipedia

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There are two major  
approaches to  
processor  
architecture: Complex  
Instruction Set

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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



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architectures are the  
Freescale/IBM  
PowerPC, the MIPS  
architecture, Sun's  
SPARC, the ARM, the  
Atmel AVR, and the  
Microchip PIC.

~~1. An Introduction to  
Computer  
Architecture~~

~~Designing ...~~

This course will  
discuss the basic

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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

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

# Principles And Applications By

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