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Advanced Computer Architecture by Guru Jambheshwar University. This lecture note covers the following topics: Parallel computer models, Program and Network properties, Pipelining, Cache memory Organization, Multithread and Data flow architecture, Concurrent Processor.

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Definition: Computer 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 is a description of the electrical circuitry of a computer that is sufficient for completely describing the operation of the hardware. Computer architecture is the conceptual design and fundamental operational structure of a computer system.

Computer Organization and Architecture Tutorials ...

What is Computer Architecture and Organization? In general terms, the architecture of a computer system can be considered as a catalogue of tools or attributes that are visible to the user such as instruction sets, number of bits used for data, addressing techniques, etc. Whereas, Organization of a computer system defines the way system is structured so that all those catalogued tools can be used. The significant components of Computer organization are ALU, CPU, memory and memory ... *EC7551: COMPUTER ARCHITECTURE AND ORGANIZATION*

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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 targeted by programming languages and their compilers.

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Computer Architecture is a functional description of requirements and design implementation for the various parts of computer. It deals with functional behavior of computer system. It comes before the computer organization while designing a computer. Architecture describes what the computer does.

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About the Author William Stallings has made a unique contribution to understanding the broad sweep of technical developments in computer networking and computer architecture. He has authored 18 titles, and counting revised editions, a total of 35 books on various aspects of these subjects.

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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 with very high performance.

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Computer architecture provides functional behavior of computer system. Computer organization provides structural relationships between parts of computer system. 3: Design: Computer architecture deals with high level design. Computer organization deals with low level design. 4: Actors: Actors in Computer architecture are hardware parts. Actor in computer organization is performance. 5: Order: Computer architecture is designed first. Computer organization is started after finalizing computer ...

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