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[Computer System Architecture](#)

Computer System Architecture. Input Unit. The input unit provides data to the computer system from the outside. So, basically it links the external environment with the computer. Output Unit. The output unit provides the results of computer process to the users i.e it links the computer with the ...

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The discipline of computer architecture has three main subcategories: Instruction set architecture (ISA): defines the machine code that a processor reads and acts upon as well as the word... Microarchitecture: also known as "computer organization", this describes how a particular processor will ...

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behavior of a computer system. It is analogous to the architecture of a building, determining the overall organization, the attributes of the component parts, and how these parts are combined. It is related to, but different from, computer implementation.

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Architecture of Computer System Input Unit. Input unit connects the external environment with internal computer system. It provides data and... Output Unit. It connects the internal system of a computer to the external environment. It provides the results of any... Storage Unit. This unit holds the ...

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1.3 Computer-System Architecture In Section 1.2, we introduced the general structure of a typical computer system. A computer system may be organized in a number of different ways, which we can categorize roughly according to the number of general-purpose processors used. 1.3.1 Single-Processor Systems Most systems use a single processor. The variety of single-processor systems may be ...

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A computer system is composed of many parts, both hardware and software. At the heart of the computer is the processor, the hardware that executes the computer programs. The computer also has memory, often several different types in one system.

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6.823 is a course in the department's "Computer Systems and Architecture" concentration. 6.823 is a study of the evolution of computer architecture and the factors influencing the design of hardware and software elements of computer systems. Topics may include: instruction set design; processor micro-architecture and pipelining; cache and virtual memory organizations; protection and sharing; I/O and interrupts; in-order and out-of-order superscalar architectures; VLIW machines; vector ...

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There are three categories of computer architecture: System Design: This includes all hardware components in the system, including data processors aside from the CPU, such... Instruction Set Architecture (ISA): This is the embedded programming language of the central processing unit. It defines... ..

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Keeping that same principle in mind, computer architecture involves building a computer and all that goes into a computer system. Computer architecture consists of three main categories. System design – This includes all the hardware parts, such as CPU, data processors, multiprocessors, memory controllers and direct memory access.

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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.

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Architecture in computer system, same as anywhere else, refers to the externally visual attributes of the system. Organization of computer system is the way of practical implementation which results in realization of architectural specifications of a computer system.

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If you're looking for a job in the field of computer engineering, you might consider becoming a computer architect. Computer architects use specialized knowledge of computer software and hardware structure to improve the performance of computer systems. To increase your chances of getting hired, you need to prepare for the interview.

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