

Cs 135 Computer Architecture I Digital Logic Circuits

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Introduction to Computer Architecture : Made Easy **Computer Organization and Architecture Lesson 1 - Introduction** **College Algebra: Course Introduction** ~~CS 436: Distributed Computer Systems - Lecture 1 Computer Science Session #21 Software Concepts (Part 1) CS 135 1001 Computer Science I: Summer II 2020 Day 12 Livestream David Patterson: Computer Architecture and Data Storage | Lex Fridman Podcast #104 CS135 - W20 -~~

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Lecture #15

CS135 - W20 - Lecture 9 ~~CS 135 1001 Computer Science I: Summer II 2020~~
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Instruction Pipeline | Computer Organization and Architecture | Gate
at zeal | gate 2021 | gate CSE Everything Matters - Tales From The
Periodic Table: Tin ~~Cs 135 Computer Architecture I~~

CS 135 duration of a few gate delays Feedback Circuits To retain their state values, sequential circuits rely on feedback. Feedback in digital circuits occurs when an output is looped back to the input. A simple example of this concept is shown below. CS 135 If Q is 0 it will always be 0, if it is 1, it will always be 1. Why? Feedback Circuits

~~CS 135: Computer Architecture I~~

CS 135: Computer Architecture I, Bhagi Narahari. Problem Transformation. The ultimate objective is to transform a problem expressed in natural language into electrons running around a circuit! That's what Computer Science and Computer Engineering are all about: a continuum that embraces software & hardware.

~~CS 135: Computer Architecture I~~

CS 135 Simple Switch Circuit • Switch open: $\frac{3}{4}$ No current through circuit

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¼Light is off ¼V out is +2.9V •Switch closed: ¼Short circuit across switch ¼Current flows ¼Light is on ¼V out is 0V Switch-based circuits can easily represent two states: on/off, open/closed, voltage/no voltage. CS 135 Digital Circuits: It's all about switching... • Action at a distance

~~CS 135: Computer Architecture I Digital Logic Circuits~~

CS 135 Laws of Boolean algebra •Duality property: each boolean property has a dual property ¼Exchange + and . Exchange 1 and 0 •Many useful properties/theorems can be proved from the 10 fundamental properties CS 135 Example: Idempotent Property •Prove: $x + x = x$
•Proof: use only the 10 fundamental laws • $x+x = (x+x).1$; From identity property

~~CS 135: Computer Architecture I Boolean Algebra~~

1. CS 135: Computer Architecture I. Instructor: Prof Bhagi Narahari
Instructor: Prof. Bhagi Narahari. Dept. of Computer Science
Course URL: www.seas.gwu.edu/~bhagiweb/cs135/. Summary: Digital Logic Circuits Combinational logic. Basic gates, complex devices (Multiplexer, decoder, memory...) Output is function of input. Sequential logic.

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~~Combinational logic CS 135: Computer Architecture I ...~~

CS 135: Computer Architecture I. Instructor: Prof. Bhagi Narahari.

Dept. of Computer Science Course URL:

www.seas.gwu.edu/~bhagiweb/cs135/. CS 135. LC 3 Instruction Set •The

Instruction set architecture (ISA) of the LC3. ³/₄How is each instruction implemented by the control and data paths in the LC3.

³/₄Programming in machine code.

~~CS 135: Computer Architecture I the LC3~~

CS 135: Computer Architecture I. Instructor: Professor Bhagi Narahari
narahari@gwu.edu Class Schedule: Tues, Thurs 2:20--3:35pm, Monroe 111

Fall 2010 Office Hours: Tues, Thurs: 1--2pm. Other times by

Appointment. Course Outline This is an introductory course on Computer organization and computer systems. The course will expose the student to ...

~~CS 135: Computer Architecture I~~

CS 135: Computer Architecture I Lecture Notes. You should also refer to the lecture notes available from the textbook website. The lecture notes posted are not meant to substitute for the text -- you are required to read the textbook before (and after) each class.

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~~CS 135: Computer Architecture I~~

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CS132 Computer Organisation and Architecture Throughout the 2020-21 academic year, we will be adapting the way we teach and assess modules in line with government guidance on social distancing and other protective measures in response to Coronavirus.

~~CS132 Computer Organisation and Architecture~~

CS 135: Computer Architecture I Instructor: Prof Bhagi

Narahari Instructor: Prof. Bhagi Narahari Dept. of Computer Science

Course URL: www.seas.gwu.edu/~bhagiweb/cs135/ Concept of Scope of

Variable In assembly, who has access to a memory location/variable ?

In high level programs, who has access to a variable ? Concept of

Scope of a variable CS 135

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~~CS 135: Computer Architecture I memory location/variable ...~~

Core - CS, CSE and CSBS. Academic Aims. To provide students with a fundamental understanding of the functional components of a computer system, and how they are organised. The emphasis of the module is on the hardware aspects of a system, and how hardware is used during the execution of software.

~~CS132 Computer Organisation and Architecture~~

History. The first documented computer architecture was in the correspondence between Charles Babbage and Ada Lovelace, describing the analytical engine. When building the computer Z1 in 1936, Konrad Zuse described in two patent applications for his future projects that machine instructions could be stored in the same storage used for data, i.e., the stored-program concept.

~~Computer architecture — Wikipedia~~

Offered by Princeton University. In this course, you will learn to design the computer architecture of complex modern microprocessors. All the features of this course are available for free. It does not offer a certificate upon completion.

~~Computer Architecture | Coursera~~

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CS 135. Computer Skills for Problem-Solving. (3 Credits) Using personal computers as effective problem-solving tools, this course will enhance analytical thinking and abstraction skills. Topics include problem specification, problem-solving techniques, and the interpretation of results to problems from scientific, business, and social domains.

~~CS — Computer Science (CS) < University of North Alabama~~

Computer architecture research focuses on designing computer systems optimized for high performance, energy efficiency, and scalability or some combination thereof. This research may focus on many aspects of computer systems including the design of processors, memory systems, GPUs, mobile and embedded devices, big data I/O systems, networks, and large-scale parallel machines.

~~Computer Architecture — Department of Computer Science~~

Department of Computer Science, 2019-2020, ca, Computer Architecture. Overview. This course aims to give an understanding of the mechanisms for implementing the programmer's idealised computer.

~~Computer Architecture — Department of Computer Science ...~~

CS/IS 125 is a course in discrete structures that furnishes a strong

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foundation of mathematical tools for modeling problems and applications in computer science. Topics include logic operations, combinatorics, undirected and directed graphs, trees, relations and sets, proofs, Boolean algebra,

~~Courses | Glendale Community College~~

Textbook: Computer Architecture, Sixth Edition: A Quantitative Approach (The Morgan Kaufmann Series in Computer Architecture and Design), by John L. Hennessy and David A. Patterson. Canvas course: [link](#); No Late Days; Schedule. This is the planned lecture schedule. It will get filled in as we go, so please check back.

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