



The Essentials of Computer Organization and Architecture

Linda Null and Julia Lobur
Jones and Bartlett Publishers, 2003

Chapter 5 Instructor's Manual

Chapter Objectives

Chapter 5, A Closer Look at Instruction Set Architectures, provides a closer look at instruction set architectures, including instruction formats, instruction types, endianness, and addressing modes. Instruction-level pipelining is introduced as well. Real-world ISAs (including Intel, MIPS, and Java) are discussed to reinforce the concepts presented in the chapter.

This chapter should be covered after Chapter 4.

Lectures should focus on the following points:

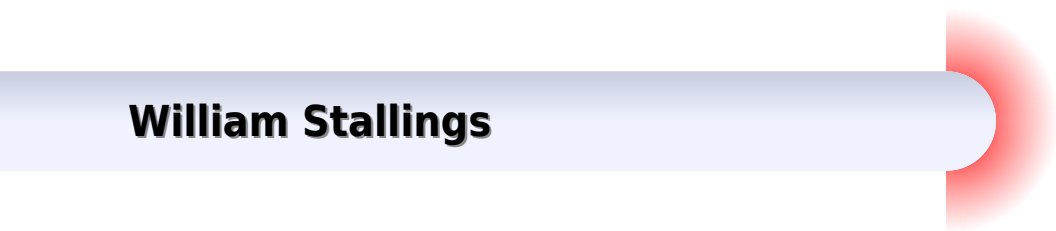
- **Instruction formats.** Important issues here include instruction length, little versus big endian, register usage (and the use of stacks), and expanding opcodes.
- **Addressing.** Although addressing is an instruction design issue, there are many aspects to consider, the most important of which is addressing modes.
- **Instruction-level pipelining.** The fetch-decode-execute cycle can be overlapped, resulting in faster execution time. Resource conflicts, conditional branching, and data dependencies can slow this process down.
- **Real-world examples of ISAs.** Intel, MIPS, and the Java virtual machine are all presented to reinforce the concepts of the chapter.

Required Lecture Time

The important concepts in Chapter 5 can typically be covered in 3 lecture hours. However, if a teacher wants the students to have a mastery of all topics in Chapter 5, 8 lecture hours are more reasonable. If lecture time is limited, we suggest that the focus be on instruction formats (including big versus little endian, use of registers, and instruction length) and addressing (with considerable attention paid to the various modes).

Computer Organization And Architecture Instructor Manual

William Stallings



Computer Organization And Architecture Instructor Manual:

The Essentials of Computer Organization and Architecture Linda Null,Julia Lobur,2006 Computer Architecture Software Engineering **Instructor's Manual to Accompany Computer Architecture and Organization** John P. Hayes,John Patrick Hayes,1988-01-01 **Computer organization and architecture : instructor's manual** William Stallings,2000 **The Essentials of Computer Organization and Architecture** Linda Null,Julia Lobur,2010-12-15 Updated and revised with the latest data in the field The Essentials of Computer Organization and Architecture Third Edition is a comprehensive resource that addresses all of the necessary organization and architecture topics yet is appropriate for the one term course This best selling text correlates to the 2008 ACM IEEE Computer Science Curriculum update and exposes readers to the inner workings of a modern digital computer through an integrated presentation of fundamental concepts and principles The authors present real world examples and focus on practical applications thus encouraging students to develop a big picture understanding of how essential organization and architecture concepts are applied in the world of computing The Essentials of Computer Organization and Architecture Second Edition was awarded a Textbook Excellence Award Texty from the Text and Academic Authors Association TAA the only association devoted solely to serving textbook and academic authors since 1987 www TAAonline net The Textbook Excellence Award recognizes works for their excellence in the areas of content presentation appeal and teachability Key Features Presents material in a logical progression starting with low level hardware and progressing to higher lever software including assemblers and operating systems Correlates to the 2008 ACM IEEE Computer Science Curriculum update and contains new exercises within the text to reflect the update Includes real world examples to provide students with a better understanding of how technology and techniques are combined for practical applications Instructor s resources include a complete instructor s manual lecture outline sample test questions and Microsoft PowerPoint slides The MARIE Simulator package allows students to learn the essential concepts of computer organization and architecture including assembly language without getting caught up in unnecessary and confusing details Can be bundled with an Intel supplement **Essentials of Computer Organization and Architecture** Linda Null,Julia Lobur,2018-03-06 Bestselling text The Essentials of Computer Organization and Architecture Fourth Edition is comprehensive enough to address all necessary organization and architecture topics but concise enough to be appropriate for a single term course Its focus on real world examples and practical applications encourages students to develop a big picture understanding of how essential organization and architecture concepts are applied in the computing world In addition to direct correlation with the ACM IEEE guidelines for computer organization and architecture the text exposes readers to the inner workings of a modern digital computer through an integrated presentation of fundamental concepts and principles Computer Organization and Architecture William Stallings,2010 KEY BENEFIT Learn the fundamentals of processor and computer design from the newest edition of this award winning text KEY TOPICS

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