

Computer Architecture 1 Final Exam

ELE319, Hanyang University, 2019 Spring.
ID: _____ Name: _____

Department: _____

The first two problems are mandatory. If you fail to answer the questions, you will not receive any credit.

- (5pt) Specify the 5-stage pipeline and explain what operation is performed at each stage.
- (5pt) Specify three hazards in processor pipelining and explain hardware and software approaches to solve the hazards.
- (5pt) Write the output value (C) for the given circuits if $A=1$ and $B=1$.



- (5pt) We construct a 2-bit multiplier using Mux as following. Two inputs are provided to a selector in Mux. For instance, $01 * 01 = 0001$ and $00 * 00 = 0000$ in the following figure. Fill the remained constant input values in the Mux to complete the multiplier. (1.5pt)



- (5pt) Similarly, we are constructing a divider using a ROM as following. In the example, if dividend is 5 and divisor is 2 then quotient is 2 and remainder is 1. Hence, $0x21$ is stored at address $0x52$. What value should be stored at address $0x53$ in the ROM to support the divider? (1.5pt)



- (5pt) What is the difference between latch and flip-flop? (5pt)
- (5pt) For the following arithmetic unit, we want to compute $A-B$ where 2's complement number is used. Determine proper values for $S1, S0, Cin$ to make $F = A-B$.



- (24pt) The following figure shows single cycle implementation for datapath and control path for MIPS architecture.



Fill 0, 1 or X(don't care) in the following table to implement for the architecture.

Instruction	ALU Op	MEMOp	Reg Write	Mem Read	Mem Write	Branch
R-type instruction	(1)	(2)	(3)	(4)	(5)	(6)
Load	(7)	(8)	(9)	(10)	(11)	(12)
Store	(13)	(14)	(15)	(16)	(17)	(18)
branch	(19)	(20)	(21)	(22)	(23)	(24)

Computer Architecture Exam Solutions

Steven E. O'Hara, David Kent Ballast



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Informatics in Schools. Sustainable Informatics Education for Pupils of all Ages Ira Diethelm, Roland T. Mittermeir, 2013-02-26 This book constitutes the refereed proceedings of the 6th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2013 held in Oldenburg Germany in February March 2013 The 15 full papers included in this volume were carefully reviewed and selected from 48 submissions in addition the book contains two keynote talks in full paper length The contributions are organized in topical sections named from computer usage to computational thinking algorithmic and computational thinking games informatics in the context of other disciplines and competence based learning and retention of competencies **Computational Methods in Neural Modeling** José

Mira, 2003-05-22 The two volume set LNCS 2686 and LNCS 2687 constitute the refereed proceedings of the 7th International Work Conference on Artificial and Natural Neural Networks IWANN 2003 held in Ma Menorca Spain in June 2003 The 197 revised papers presented were carefully reviewed and selected for inclusion in the book and address the following topics mathematical and computational methods in neural modelling neurophysiological data analysis and modelling structural and

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Table of Contents Computer Architecture Exam Solutions

1. Understanding the eBook Computer Architecture Exam Solutions
 - The Rise of Digital Reading Computer Architecture Exam Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Architecture Exam Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computer Architecture Exam Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Architecture Exam Solutions
 - Personalized Recommendations
 - Computer Architecture Exam Solutions User Reviews and Ratings
 - Computer Architecture Exam Solutions and Bestseller Lists
5. Accessing Computer Architecture Exam Solutions Free and Paid eBooks

- Computer Architecture Exam Solutions Public Domain eBooks
 - Computer Architecture Exam Solutions eBook Subscription Services
 - Computer Architecture Exam Solutions Budget-Friendly Options
6. Navigating Computer Architecture Exam Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Computer Architecture Exam Solutions Compatibility with Devices
 - Computer Architecture Exam Solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computer Architecture Exam Solutions
 - Highlighting and Note-Taking Computer Architecture Exam Solutions
 - Interactive Elements Computer Architecture Exam Solutions
 8. Staying Engaged with Computer Architecture Exam Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Architecture Exam Solutions
 9. Balancing eBooks and Physical Books Computer Architecture Exam Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Architecture Exam Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Computer Architecture Exam Solutions
 - Setting Reading Goals Computer Architecture Exam Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Computer Architecture Exam Solutions
 - Fact-Checking eBook Content of Computer Architecture Exam Solutions
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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