

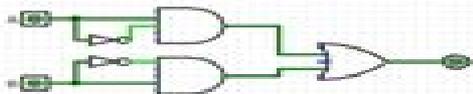
# Computer Architecture 1 Final Exam

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  $B=1$ .



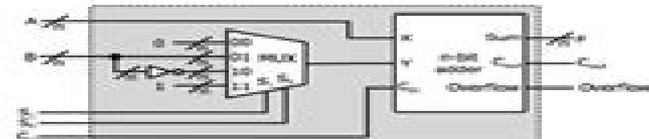
- (5pt) We construct a 2-bit multiplier using Mux as following. Two inputs are provided to a selector in Mux. For instance,  $01 * 01 = 0001$  and  $00 * 00 = 0000$  in the following figure. Fill the remained constant input values in the Mux to complete the multiplier. (1.5pt)



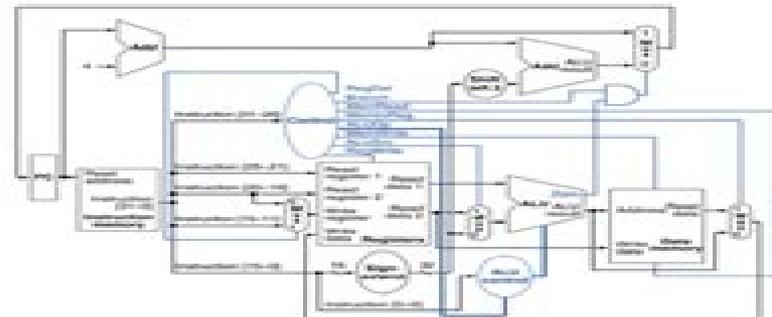
- (5pt) Similarly, we are constructing a divider using a ROM as following. In the example, if dividend is 5 and divisor is 2 then quotient is 2 and remainder is 1. Hence,  $0x21$  is stored at address  $0x52$ . What value should be stored at address  $0x53$  in the ROM to support the divider? (1.5pt)



- (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	MEMto Reg	Reg Write	Mem Read	Mem Write	Br enck
R-type Instruction	(1)	(2)	(3)	(4)	(5)	(6)
Load	(7)	(8)	(9)	(10)	(11)	(12)
Store	(13)	(14)	(15)	(16)	(17)	(18)
branch0	(19)	(20)	(21)	(22)	(23)	(24)

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**David Kirk**



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United States Air Force Academy United States Air Force Academy, **Annual Catalogue** United States Air Force Academy,1985 Computer Concepts June Jamrich Parsons,Dan Oja,2006 **Architectural Program Report, June 1997** University of California, Berkeley. Department of Architecture,1997 **Government Reports Announcements** ,1972 Government Reports Announcements & Index ,1988 *Management Information Systems and Business Statistics* Richard Schwindt,1995 **Government Reports Announcements & Index** ,1991 *Proceedings of the ... IEEE International Conference on Electronics, Circuits, and Systems* ,1998 *CAD/CAM Abstracts* ,1988 **ASEE ... Profiles of Engineering & Engineering Technology Colleges** ,1998 *University of Nebraska-Lincoln, Catalog: GRADUATE.* University of Nebraska--Lincoln. Graduate College/Graduate Studies,1971 Cornell University Courses of Study Cornell University,2005 **Computers, Communications, and Information** Sarah E. Hutchinson,Sarah Hutchinson Clifford,Stacey C. Sawyer,1998 Designed for the introduction to computers or computer literacy course found in the business or CIS department at two year and four year schools *Interface* ,1987 *National Guide to Educational Credit for Training Programs 2004-2005* Jo Ann Robinson,Troy Polite,Nancy Musick,2004 For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information

Catalogs of Courses University of California, Berkeley, 1994 Includes general and summer catalogs issued between 1878 and 1995 1997

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*American Journal of Physics*, 1985 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics

Peterson's Guide to Graduate Programs in Engineering and Applied Sciences, 1991

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1. Understanding the eBook Advanced Computer Architecture Final Exam Solutions
  - The Rise of Digital Reading Advanced Computer Architecture Final Exam Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Computer Architecture Final 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 Advanced Computer Architecture Final Exam Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Computer Architecture Final Exam Solutions
  - Personalized Recommendations
  - Advanced Computer Architecture Final Exam Solutions User Reviews and Ratings
  - Advanced Computer Architecture Final Exam Solutions and Bestseller Lists
5. Accessing Advanced Computer Architecture Final Exam Solutions Free and Paid eBooks
  - Advanced Computer Architecture Final Exam Solutions Public Domain eBooks
  - Advanced Computer Architecture Final Exam Solutions eBook Subscription Services
  - Advanced Computer Architecture Final Exam Solutions Budget-Friendly Options
6. Navigating Advanced Computer Architecture Final Exam Solutions eBook Formats

- ePub, PDF, MOBI, and More
  - Advanced Computer Architecture Final Exam Solutions Compatibility with Devices
  - Advanced Computer Architecture Final Exam Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Advanced Computer Architecture Final Exam Solutions
    - Highlighting and Note-Taking Advanced Computer Architecture Final Exam Solutions
    - Interactive Elements Advanced Computer Architecture Final Exam Solutions
  8. Staying Engaged with Advanced Computer Architecture Final Exam Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Advanced Computer Architecture Final Exam Solutions
  9. Balancing eBooks and Physical Books Advanced Computer Architecture Final Exam Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Advanced Computer Architecture Final Exam Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Advanced Computer Architecture Final Exam Solutions
    - Setting Reading Goals Advanced Computer Architecture Final Exam Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Advanced Computer Architecture Final Exam Solutions
    - Fact-Checking eBook Content of Advanced Computer Architecture Final 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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