

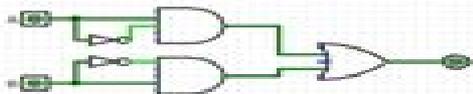
Computer Architecture 1 Final Exam

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, $01 \cdot 01 = 0001$ and $00 \cdot 00 = 0000$ 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 Sec	MEMtoReg	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)
branch0	(19)	(20)	(21)	(22)	(23)	(24)

Advanced Computer Architecture Final Exam Solutions

DJ Losen



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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* **Government Reports Announcements & Index ,1991** *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 *Management Information Systems and Business Statistics* Richard Schwindt,1995 **Interface ,1987** *Proceedings of the ... IEEE International Conference on Electronics, Circuits, and Systems ,1998* **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 1879 and 1995 1997

International Nuclear Safeguards 1994 International Atomic Energy Agency, 1994 Proceedings of a symposium organized in co operation with ANS ESARDA INMM and the Nuclear Society International Moscow Vienna 14 18 March 1994 Presented at this symposium were the findings in Iraq by the Action Team established under United Nations Security Council resolutions South Africa s decision to join the Treaty on the Non Proliferation of Nuclear Weapons NPT details of the IAEA Argentina Brazil ABACC Quadripartite Safeguards Agreement and measures following the break up of the former USSR into newly independent States Special emphasis was given to the verification of a State s declaration as well as detection of undeclared activities In addition to covering recent developments the symposium considered fundamental changes stemming from converging relationships between nuclear arms reductions and the civil use of plutonium unattended computer based verification systems and other safeguards concepts for the future and the review and extension of the NPT in 1995

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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