1. Verilog Implementation

Design of an 8-bit ALU

Write the VERILOG code for an 8-bit arithmetic/logic unit (ALU). This should be very reminiscent of the work you did for Lab 2. The ALU has FIVE input vectors. They are:

OPCODE: A 4-bit opcode

A: An 8-bit vector
B: An 8-bit vector
RA: A 4-bit vector
RB: A 4-bit vector

alu_out: An 8-bit Vector

The ALU should operate on the inputs A, B, RA, and RB depending on the control input OPCODE in the following way:

OPCODE	Operation
0 0 0 0	alu_out = Don't care
0 0 0 1	alu_out = {RA,RB}
0 0 1 0	alu_out = A + B
0 0 1 1	alu_out = A + RB
0 1 0 0	alu_out = A - B
0 1 0 1	alu_out = A | B
0 1 1 0	alu_out = A & B
0 1 1 1	alu_out = A ^ B
1 0 0 0	alu_out = B + 1
1 0 0 1	alu_out = B − 1
1 0 1 0	alu_out = ~B
1 0 1 1	alu_out = Don't Care
1 1 0 0	alu_out = {RA,RB}
1 1 0 1	alu_out = Don't Care
1 1 1 0	alu_out = Don't Care
1 1 1 1	alu_out = Don't Care

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Verilog Digital System Design : Register Transfer Level Synthesis, Testbench, and Verification Zainalabedin Navabi,2005-10-03 This rigorous text shows electronics designers and students how to deploy Verilog in sophisticated digital systems design The Second Edition is completely updated along with the many worked examples for Verilog 2001 new synthesis standards and coverage of the new OVI verification library **Digital Design and Implementation with Field Programmable Devices** Zainalabedin Navabi,2006-02-28 This book is on digital system design for programmable devices such as FPGAs CPLDs and PALs A designer wanting to design with programmable devices must understand digital system design at the RT Register Transfer level circuitry and programming of programmable devices digital design methodologies use of hardware description languages in design design tools and environments and finally such a designer must be familiar with one or several digital design tools and environments Books on these topics are many and they cover individual design topics with very general approaches The number of books a designer needs to gather the necessary information for a practical knowledge of design with field programmable devices can easily reach five or six much of which is on theoretical concepts that are not directly applicable to RT level design with programmable devices The focus of this book is on a practical knowledge of digital system design for programmable devices The book covers all necessary topics under one cover and covers each topic just enough that is actually used by an advanced digital designer In the three parts of the book we cover digital system design concepts use of tools and systematic design of digital systems In the first chapter design methodologies use of simulation and synthesis tools and programming programmable devices are discussed Based on this automated design methodology the next four chapters present the necessary background for logic design the Verilog language programmable devices and computer architectures **Verilog Digital System Design** Zainalabedin Navabi,2005-10-24 This rigorous text shows electronics designers and students how to deploy Verilog in sophisticated digital systems design The Second Edition is completely updated along with the many worked examples for Verilog 2001 new synthesis standards and coverage of the new OVI verification library **Digital Design of Signal Processing Systems** Shoab Ahmed Khan,2011-07-28 Digital Design of Signal Processing Systems discusses a spectrum of architectures and methods for effective implementation of algorithms in hardware HW Encompassing all facets of the subject this book includes conversion of algorithms from floating point to fixed point format parallel architectures for basic computational blocks Verilog Hardware Description Language HDL SystemVerilog and coding guidelines for synthesis The book also covers system level design of Multi Processor System on Chip MPSoC a consideration of different design methodologies including Network on Chip NoC and Kahn Process Network KPN based connectivity among processing elements A special emphasis is placed on implementing streaming applications like a digital communication system in HW Several novel architectures for implementing commonly used algorithms in signal processing are also revealed With a comprehensive coverage of topics the

book provides an appropriate mix of examples to illustrate the design methodology Key Features A practical guide to designing efficient digital systems covering the complete spectrum of digital design from a digital signal processing perspective Provides a full account of HW building blocks and their architectures while also elaborating effective use of embedded computational resources such as multipliers adders and memories in FPGAs Covers a system level architecture using NoC and KPN for streaming applications giving examples of structuring MATLAB code and its easy mapping in HW for these applications Explains state machine based and Micro Program architectures with comprehensive case studies for mapping complex applications The techniques and examples discussed in this book are used in the award winning products from the Center for Advanced Research in Engineering CARE Software Defined Radio 10 Gigabit VoIP monitoring system and Digital Surveillance equipment has respectively won APICTA Asia Pacific Information and Communication Alliance awards in 2010 for their unique and effective designs   **Embedded Microprocessor System Design using FPGAs** Uwe Meyer-Baese,2021-03-15 This textbook for courses in Embedded Systems introduces students to necessary concepts through a hands on approach It gives a great introduction to FPGA based microprocessor system design using state of the art boards tools and microprocessors from Altera Intel and Xilinx HDL based designs soft core parameterized cores Nios II and MicroBlaze and ARM Cortex A9 design are discussed compared and explored using many hand on designs projects Custom IP for HDMI coder Floating point operations and FFT bit swap are developed implemented tested and speed up is measured Downloadable files include all design examples such as basic processor synthesizable code for Xilinx and Altera tools for PicoBlaze MicroBlaze Nios II and ARMv7 architectures in VHDL and Verilog code as well as the custom IP projects Each Chapter has a substantial number of short quiz questions exercises and challenging projects Explains soft parameterized and hard core systems design tradeoffs Demonstrates design of popular KCPSM6 8 Bit microprocessor step by step Discusses the 32 Bit ARM Cortex A9 and a basic processor is synthesized Covers design flows for both FPGA Market leaders Nios II Altera Intel and MicroBlaze Xilinx system Describes Compiler Compiler Tool development Includes a substantial number of Homework s and FPGA exercises and design projects in each chapter   **Embedded Core Design with FPGAs** Zainalabedin Navabi,2007 This volume shows how a processor can be designed from scratch and by use of new EDA tools how it interfaces with its software It shows how a processor and its software can be used as an embedded core and used for the design of an embedded system   Verilog Quickstart James M. Lee,1997 Explains to engineers and students how to use the Verilog hardware description language to simulate debug and document a design based on Lee s course at the University of California Sets out some of the formal syntax and definitions demonstrates use of the language with over 100 examples then looks at how style affects the choice of constructs for modeling a design Neither a comprehensive reference nor a theoretical account Assumes a background in hardware design The 3 5 disk contains the example files in both DOS and UNIX formats No bibliography Annotation copyrighted by Book News Inc Portland OR   Digital System Test and Testable Design

Zainalabedin Navabi,2010-12-10 This book is about digital system testing and testable design The concepts of testing and testability are treated together with digital design practices and methodologies The book uses Verilog models and testbenches for implementing and explaining fault simulation and test generation algorithms Extensive use of Verilog and Verilog PLI for test applications is what distinguishes this book from other test and testability books Verilog eliminates ambiguities in test algorithms and BIST and DFT hardware architectures and it clearly describes the architecture of the testability hardware and its test sessions Describing many of the on chip decompression algorithms in Verilog helps to evaluate these algorithms in terms of hardware overhead and timing and thus feasibility of using them for System on Chip designs Extensive use of testbenches and testbench development techniques is another unique feature of this book Using PLI in developing testbenches and virtual testers provides a powerful programming tool interfaced with hardware described in Verilog This mixed hardware software environment facilitates description of complex test programs and test strategies

High-level Function and Delay Testing for Digital Circuits Joonhwan Yi,2002 *Applied Digital Logic Exercises Using FPGAs* Kurt Wick,2017-10-03 FPGAs have almost entirely replaced the traditional Application Specific Standard Parts ASSP such as the 74xx logic chip families because of their superior size versatility and speed For example FPGAs provide over a million fold increase in gates compared to ASSP parts The traditional approach for hands on exercises has relied on ASSP parts primarily because of their simplicity and ease of use for the novice Not only is this approach technically outdated but it also severely limits the complexity of the designs that can be implemented By introducing the readers to FPGAs they are being familiarized with current digital technology and the skills to implement complex sophisticated designs However working with FGPAs comes at a cost of increased complexity notably the mastering of an HDL language such as Verilog Therefore this book accomplishes the following first it teaches basic digital design concepts and then applies them through exercises second it implements these digital designs by teaching the user the syntax of the Verilog language while implementing the exercises Finally it employs contemporary digital hardware such as the FPGA to build a simple calculator a basic music player a frequency and period counter and it ends with a microprocessor being embedded in the fabric of the FGPA to communicate with the PC In the process readers learn about digital mathematics and digital to analog converter concepts through pulse width modulation   The Osprey Journal of Ideas and Inquiry ,2004 Research papers by University of North Florida students   **The ... IEEE Asia Pacific Conference on ASICs** ,2002   *IEICE Transactions on Electronics* ,2008   **Learning by Example Using Verilog** Richard E. Haskell,2008   IEEE International Symposium on Circuits and Systems IEEE Circuits and Systems Society,2003 These volumes relate to matters discussed during the 2003 IEEE International Symposium on Circuits and Systems such as analogue circuits and signal processing communications multimedia systems and applications general and nonlinear circuits and systems and neural networks and systems

Nanoelectronic Mixed-Signal System Design Saraju Mohanty,2015-02-20 Covering both the classical and emerging

nanoelectronic technologies being used in mixed signal design this book addresses digital analog and memory components Winner of the Association of American Publishers 2016 PROSE Award in the Textbook Physical Sciences Mathematics category Nanoelectronic Mixed Signal System Design offers professionals and students a unified perspective on the science engineering and technology behind nanoelectronics system design Written by the director of the NanoSystem Design Laboratory at the University of North Texas this comprehensive guide provides a large scale picture of the design and manufacturing aspects of nanoelectronic based systems It features dual coverage of mixed signal circuit and system design rather than just digital or analog only Key topics such as process variations power dissipation and security aspects of electronic system design are discussed Top down analysis of all stages from design to manufacturing Coverage of current and developing nanoelectronic technologies not just nano CMOS Describes the basics of nanoelectronic technology and the structure of popular electronic systems Reveals the techniques required for design excellence and manufacturability

2001 International Symposium on VLSI Technology, Systems, and Applications IEEE, Taipei Section Staff,2001 **6th IEEE International Workshop on Rapid System Prototyping** Rudy Lauwereins,1995 To help designers and developers of hardware software systems knock together a working model more quickly the 33 papers discuss models for system simulation and emulation in a hierarchical sense software to hardware mapping software prototyping and validation prototyping environments of hardware *Digital Systems Design Using VHDL* Charles H. Roth,Lizy K. John,2008 This textbook is intended for a senior level course in digital systems design The book covers both basic principles of digital systems design and the use of a hardware description language VHDL in the design process *Verilog HDL Bug Hunting Tool* Liying Su,2006

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