

EXPERIEMENT NO. 1

Simulation using all the modeling styles and Synthesis of all the logic gates using Verilog HDL

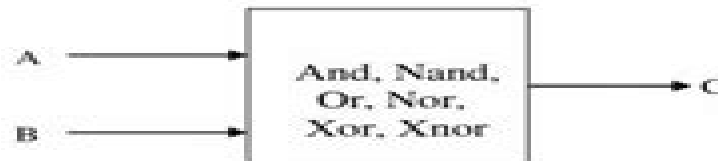
AIM:

Perform Zero Delay Simulation of all the logic gates written in behavioral, dataflow and structural modeling style in Verilog using a Test bench. then, Synthesize each one of them on two different EDA tools.

Electronics Design Automation Tools used:

- i) FPGA Advantage 3.1 (includes Model Sim simulation tool and Leonardo Spectrum Synthesis Tool)
- ii) Xilinx Project Navigator 8.1 (Includes all the steps in the design flow from Simulation to Implementation to download onto FPGA).

Block Diagram:



Truth table:

And Gate:

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

Nand Gate:

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

Xor Gate:

Or Gate:

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

Nor Gate:

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

Xnor Gate:

Verilog Programming Manual

**Stuart Sutherland, Simon
Davidmann, Peter Flake**



Verilog Programming Manual:

The Verilog PLI Handbook Stuart Sutherland, 2013-04-18 The Verilog Programming Language Interface commonly called the Verilog PU is one of the more powerful features of Verilog The PU provides a means for both hardware designers and software engineers to interface their own programs to commercial Verilog simulators Through this interface a Verilog simulator can be customized to perform virtually any engineering task desired Just a few of the common uses of the PU include interfacing Verilog simulations to C language models adding custom graphical tools to a simulator reading and writing proprietary file formats from within a simulation performing test coverage analysis during simulation and so forth The applications possible with the Verilog PLI are endless Intended audience this book is written for digital design engineers with a background in the Verilog Hardware Description Language and a fundamental knowledge of the C programming language It is expected that the reader has a basic knowledge of hardware engineering specifically digital design of ASIC and FPGA technologies Is familiar with the Verilog Hardware Description Language HDL and can write models of hardware circuits in Verilog can write simulation test fixtures in Verilog and can run at least one Verilog logic simulator Knows basic C language programming including the use of functions pointers structures and file I/O Explanations of the concepts and terminology of digital

The Verilog PLI Handbook Professor of Experimental Psychology Stuart Sutherland, 2014-01-15 The Verilog Programming Language Interface is a powerful feature of the Verilog standard Through this interface a Verilog simulator can be customized to perform virtually any engineering task desired such as adding custom design debug utilities adding proprietary file read write utilities and interfacing bus functional C language models to a simulator This book serves as both a user's guide for learning the Verilog PLI and as a comprehensive reference manual on the Verilog PLI standard Both the TF ACC PLI 1.0 and the VPI PLI 2.0 generations of the PLI are presented based on the IEEE 1364 Verilog standard The second edition of this book adds detailed coverage of the many enhancements added in the latest IEEE 1364 2001 Verilog standard Verilog 2001

SystemVerilog Assertions Handbook Ben Cohen, Srinivasan Venkataramanan, Ajeetha Kumari, 2005

The Verilog PLI Handbook Stuart Sutherland, 2002-02-28 The Verilog Programming Language Interface is a powerful feature of the Verilog standard Through this interface a Verilog simulator can be customized to perform virtually any engineering task desired such as adding custom design debug utilities adding proprietary file read write utilities and interfacing bus functional C language models to a simulator This book serves as both a user's guide for learning the Verilog PLI and as a comprehensive reference manual on the Verilog PLI standard Both the TF ACC PLI 1.0 and the VPI PLI 2.0 generations of the PLI are presented based on the IEEE 1364 Verilog standard The second edition of this book adds detailed coverage of the many enhancements added in the latest IEEE 1364 2001 Verilog standard Verilog 2001

Verification Methodology Manual for SystemVerilog Janick Bergeron, Eduard Cerny, Alan Hunter, Andy Nightingale, 2005-12-29 Functional verification remains one of the single biggest challenges in the development of complex system on chip SoC devices Despite

the introduction of successive new technologies the gap between design capability and verification confidence continues to widen The biggest problem is that these diverse new technologies have led to a proliferation of verification point tools most with their own languages and methodologies Fortunately a solution is at hand SystemVerilog is a unified language that serves both design and verification engineers by including RTL design constructs assertions and a rich set of verification constructs SystemVerilog is an industry standard that is well supported by a wide range of verification tools and platforms A single language fosters the development of a unified simulation based verification tool or platform Consolidation of point tools into a unified platform and convergence to a unified language enable the development of a unified verification methodology that can be used on a wide range of SoC projects ARM and Synopsys have worked together to define just such a methodology in the Verification Methodology Manual for SystemVerilog This book is based upon best verification practices by ARM Synopsys and their customers Verification Methodology Manual for SystemVerilog is a blueprint for verification success guiding SoC teams in building a reusable verification environment taking full advantage of design for verification techniques constrained random stimulus generation coverage driven verification formal verification and other advanced technologies to help solve their current and future verification problems This book is appropriate for anyone involved in the design or verification of a complex chip or anyone who would like to know more about the capabilities of SystemVerilog Following the Verification Methodology Manual for SystemVerilog will give SoC development teams and project managers the confidence needed to tape out a complex design secure in the knowledge that the chip will function correctly in the real world

Embedded Systems Handbook 2-Volume Set Richard Zurawski, 2018-10-08 During the past few years there has been an dramatic upsurge in research and development implementations of new technologies and deployments of actual solutions and technologies in the diverse application areas of embedded systems These areas include automotive electronics industrial automated systems and building automation and control Comprising 48 chapters and the contributions of 74 leading experts from industry and academia the Embedded Systems Handbook Second Edition presents a comprehensive view of embedded systems their design verification networking and applications The contributors directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews exploring new developments deployments and trends To accommodate the tremendous growth in the field the handbook is now divided into two volumes New in This Edition Processors for embedded systems Processor centric architecture description languages Networked embedded systems in the automotive and industrial automation fields Wireless embedded systems Embedded Systems Design and Verification Volume I of the handbook is divided into three sections It begins with a brief introduction to embedded systems design and verification The book then provides a comprehensive overview of embedded processors and various aspects of system on chip and FPGA as well as solutions to design challenges The final section explores power aware embedded computing design issues specific to secure embedded systems and web services for

embedded devices Networked Embedded Systems Volume II focuses on selected application areas of networked embedded systems It covers automotive field industrial automation building automation and wireless sensor networks This volume highlights implementations in fast evolving areas which have not received proper coverage in other publications Reflecting the unique functional requirements of different application areas the contributors discuss inter node communication aspects in the context of specific applications of networked embedded systems The Electronic Design Automation Handbook Dirk Jansen,2010-02-23 When I attended college we studied vacuum tubes in our junior year At that time an average radio had vacuum tubes and better ones even seven Then transistors appeared in 1960s A good radio was judged to be one with more than ten transistors Later good radios had 15-20 transistors and after that everyone stopped counting transistors Today modern processors running personal computers have over 10 million transistors and more millions will be added every year The difference between 20 and 20M is in complexity methodology and business models Designs with 20 transistors are easily generated by design engineers without any tools whilst designs with 20M transistors can not be done by humans in reasonable time without the help of Prof Dr Gajski demonstrates the Y chart automation This difference in complexity introduced a paradigm shift which required sophisticated methods and tools and introduced design automation into design practice By the decomposition of the design process into many tasks and abstraction levels the methodology of designing chips or systems has also evolved Similarly the business model has changed from vertical integration in which one company did all the tasks from product specification to manufacturing to globally distributed client server production in which most of the design and manufacturing tasks are outsourced Embedded Systems Handbook Richard Zurawski,2018-09-03 Considered a standard industry resource the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications including those in automotive electronics industrial automated systems and building automation and control Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again Divided into two volumes to accommodate this growth the Embedded Systems Handbook Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews that explore cutting edge developments and deployments and identify potential trends This first self contained volume of the handbook Embedded Systems Design and Verification is divided into three sections It begins with a brief introduction to embedded systems design and verification It then provides a comprehensive overview of embedded processors and various aspects of system on chip and FPGA as well as solutions to design challenges The final section explores power aware embedded computing design issues specific to secure embedded systems and web services for embedded devices Those interested in taking their work with embedded systems to the network level should complete their study with the second

volume Network Embedded Systems **Introduction to VLSI Design Flow** Saurabh, 2023 **SystemVerilog for Design**
Second Edition Stuart Sutherland, Simon Davidmann, Peter Flake, 2006-09-15 SystemVerilog is a rich set of extensions to the
 IEEE 1364 2001 Verilog Hardware Description Language Verilog HDL These extensions address two major aspects of HDL
 based design First modeling very large designs with concise accurate and intuitive code Second writing high level test
 programs to efficiently and effectively verify these large designs The first edition of this book addressed the first aspect of
 the SystemVerilog extensions to Verilog Important modeling features were presented such as two state data types
 enumerated types user defined types structures unions and interfaces Emphasis was placed on the proper usage of these
 enhancements for simulation and synthesis SystemVerilog for Design Second Edition has been extensively revised on a
 chapter by chapter basis to include the many text and example updates needed to reflect changes that were made between
 the first edition of this book was written and the finalization of the new standard It is important that the book reflect these
 syntax and semantic changes to the SystemVerilog language In addition the second edition features a new chapter that
 explains the SystemVerilog packages a new appendix that summarizes the synthesis guidelines presented throughout the
 book and all of the code examples have been updated to the final syntax and rerun using the latest version of the Synopsys
 Mentor and Cadence tools *FPGA Prototyping by SystemVerilog Examples* Pong P. Chu, 2018-04-18 A hands on
 introduction to FPGA prototyping and SoC design This is the successor edition of the popular FPGA Prototyping by Verilog
 Examples text It follows the same learning by doing approach to teach the fundamentals and practices of HDL synthesis and
 FPGA prototyping The new edition uses a coherent series of examples to demonstrate the process to develop sophisticated
 digital circuits and IP intellectual property cores integrate them into an SoC system on a chip framework realize the system
 on an FPGA prototyping board and verify the hardware and software operation The examples start with simple gate level
 circuits progress gradually through the RT register transfer level modules and lead to a functional embedded system with
 custom I O peripherals and hardware accelerators Although it is an introductory text the examples are developed in a
 rigorous manner and the derivations follow the strict design guidelines and coding practices used for large complex digital
 systems The book is completely updated and uses the SystemVerilog language which absorbs the Verilog language It
 presents the hardware design in the SoC context and introduces the hardware software co design concept Instead of treating
 examples as isolated entities the book integrates them into a single coherent SoC platform that allows readers to explore
 both hardware and software programmability and develop complex and interesting embedded system projects The new
 edition Adds four general purpose IP cores which are multi channel PWM pulse width modulation controller I2C controller
 SPI controller and XADC Xilinx analog to digital converter controller Introduces a music synthesizer constructed with a DDFS
 direct digital frequency synthesis module and an ADSR attack decay sustain release envelope generator Expands the original
 video controller into a complete stream based video subsystem that incorporates a video synchronization circuit a test

pattern generator an OSD on screen display controller a sprite generator and a frame buffer Provides a detailed discussion on blocking and nonblocking statements and coding styles Describes basic concepts of software hardware co design with Xilinx MicroBlaze MCS soft core processor Provides an overview of bus interconnect and interface circuit Presents basic embedded system software development Suggests additional modules and peripherals for interesting and challenging projects FPGA Prototyping by SystemVerilog Examples makes a natural companion text for introductory and advanced digital design courses and embedded system courses It also serves as an ideal self teaching guide for practicing engineers who wish to learn more about this emerging area of interest

Handbook of Signal Processing Systems Shuvra S.

Bhattacharyya,Ed F. Deprettere,Rainer Leupers,Jarmo Takala,2010-09-10 It gives me immense pleasure to introduce this timely handbook to the research development communities in the field of signal processing systems SPS This is the first of its kind and represents state of the arts coverage of research in this field The driving force behind information technologies IT hinges critically upon the major advances in both component integration and system integration The major breakthrough for the former is undoubtedly the invention of IC in the 50 s by Jack S Kilby the Nobel Prize Laureate in Physics 2000 In an integrated circuit all components were made of the same semiconductor material Beginning with the pocket calculator in 1964 there have been many increasingly complex applications followed In fact processing gates and memory storage on a chip have since then grown at an exponential rate following Moore s Law Moore himself admitted that Moore s Law had turned out to be more accurate longer lasting and deeper in impact than he ever imagined With greater device integration various signal processing systems have been realized for many killer IT applications Further breakthroughs in computer sciences and Internet technologies have also catalyzed large scale system integration All these have led to today s IT revolution which has profound impacts on our lifestyle and overall prospect of humanity It is hard to imagine life today without mobiles or Internets The success of SPS requires a well concerted integrated approach from multiple disciplines such as device design and application

Computer Organization James Gil de Lamadrid,2018-02-19 Computer Organization

Basic Processor Structure is a class tested textbook based on the author s decades of teaching the topic to undergraduate and beginning graduate students The main questions the book tries to answer are how is a processor structured and how does the processor function in a general purpose computer The book begins with a discussion of the interaction between hardware and software and takes the reader through the process of getting a program to run It starts with creating the software compiling and assembling the software loading it into memory and running it It then briefly explains how executing instructions results in operations in digital circuitry The book next presents the mathematical basics required in the rest of the book particularly Boolean algebra and the binary number system The basics of digital circuitry are discussed next including the basics of combinatorial circuits and sequential circuits The bus communication architecture used in many computer systems is also explored along with a brief discussion on interfacing with peripheral devices The first part of the book

finishes with an overview of the RTL level of circuitry along with a detailed discussion of machine language The second half of the book covers how to design a processor and a relatively simple register implicit machine is designed ALSU design and computer arithmetic are discussed next and the final two chapters discuss micro controlled processors and a few advanced topics

EDA for IC System Design, Verification, and Testing Louis Scheffer, Luciano Lavagno, Grant Martin, 2018-10-03 Presenting a comprehensive overview of the design automation algorithms tools and methodologies used to design integrated circuits the Electronic Design Automation for Integrated Circuits Handbook is available in two volumes The first volume EDA for IC System Design Verification and Testing thoroughly examines system level design microarchitectural design logical verification and testing Chapters contributed by leading experts authoritatively discuss processor modeling and design tools using performance metrics to select microprocessor cores for IC designs design and verification languages digital simulation hardware acceleration and emulation and much more Save on the complete set

Handbook of Research on Advanced Hybrid Intelligent Techniques and Applications Bhattacharyya, Siddhartha, Banerjee, Pinaki, Majumdar, Dipankar, Dutta, Paramartha, 2015-11-03 Conventional computational methods and even the latest soft computing paradigms often fall short in their ability to offer solutions to many real world problems due to uncertainty imprecision and circumstantial data Hybrid intelligent computing is a paradigm that addresses these issues to a considerable extent The Handbook of Research on Advanced Hybrid Intelligent Techniques and Applications highlights the latest research on various issues relating to the hybridization of artificial intelligence practical applications and best methods for implementation Focusing on key interdisciplinary computational intelligence research dealing with soft computing techniques pattern mining data analysis and computer vision this book is relevant to the research needs of academics IT specialists and graduate level students

Research Methods for Digital Work and Organization Gillian Symon, Katrina Pritchard, Christine Hine, 2021-10-21 Digital work has become increasingly common taking a wide variety of forms including working from home mobile work gig work crowdsourcing and online volunteering It is organizationally interpretively spatially and temporally complex An array of innovative methodologies have begun to emerge to capture this complexity whether through re purposing existing tools devising entirely novel methods or mixing old and new This volume brings together some of these techniques in an accessible sourcebook for management business organizational and work researchers It presents a range of innovative methods which capture and analyse digitally related work practices through reflexive accounts of real world research projects and elucidates the range of challenges such methods may raise for research practice It outlines debates and recommendations and provides further reading and information to support research practice The book is organised in four sections that reflect different areas of focus and methodological approaches working with screens digital working practices distributed work and organizing and digital traces of work It then concludes by reflecting on the methodological issues research ethics requisite skills and future of research given the intensification of

digital work during a global pandemic that has impacted all aspects of our lives

SystemVerilog for Verification Chris Spear, 2006-09-15 This book provides practical information for hardware and software engineers using the SystemVerilog language to verify electronic designs The authors explain methodology concepts for constructing testbenches that are modular and reusable The text includes extensive coverage of the SystemVerilog 3.1a constructs and reviews SystemVerilog 3.0 topics such as interfaces and data types Included are detailed explanations of Object Oriented Programming and information on testbenches multithreaded code and interfacing to hardware designs

Hardware Verification with C++ Mike Mintz, Robert Ekendahl, 2006-12-11 Describes a small verification library with a concentration on user adaptability such as reusable components portable Intellectual Property and co verification Takes a realistic view of reusability and distills lessons learned down to a tool box of techniques and guidelines

Integrated Circuit Design Xiaokun Yang, 2024-11-20 This textbook seeks to foster a deep understanding of the field by introducing the industry integrated circuit IC design flow and offering tape out or pseudo tape out projects for hands on practice facilitating project based learning PBL experiences Integrated Circuit Design IC Design Flow and Project Based Learning aims to equip readers for entry level roles as IC designers in the industry and as hardware design researchers in academia The book commences with an overview of the industry IC design flow with a primary focus on register transfer level RTL design the automation of simulation and verification and system on chip SoC integration To build connections between RTL design and physical hardware FPGA field programmable gate array synthesis and implementation is utilized to illustrate the hardware description and performance evaluation The second objective of this book is to provide readers with practical hands on experience through tape out or pseudo tape out experiments labs and projects These activities are centered on coding format industry design rules synthesizable Verilog designs clock domain crossing etc and commonly used bus protocols arbitration handshaking etc as well as established design methodologies for widely adopted hardware components including counters timers finite state machines FSMs I2C single dual port and ping pong buffers register files FIFOs floating point units FPUs numerical hardware Fourier transform matrix multiplication etc direct memory access DMA image processing designs neural networks and more The textbook caters to a diverse readership including junior and senior undergraduate students as well as graduate students pursuing degrees in electrical engineering computer engineering computer science and related fields The target audience is expected to have a basic understanding of Boolean Algebra and Karnaugh Maps as well as prior familiarity with digital logic components such as AND OR gates latches and flip flops The book will also be useful for entry level RTL designers and verification engineers who are embarking on their journey in application specific IC ASIC and FPGA design industry

Digital Systems Design with FPGAs and CPLDs Ian Grout, 2011-04-08 Digital Systems Design with FPGAs and CPLDs explains how to design and develop digital electronic systems using programmable logic devices PLDs Totally practical in nature the book features numerous quantify when known case study designs using a variety of Field

Programmable Gate Array FPGA and Complex Programmable Logic Devices CPLD for a range of applications from control and instrumentation to semiconductor automatic test equipment Key features include Case studies that provide a walk through of the design process highlighting the trade offs involved Discussion of real world issues such as choice of device pin out power supply power supply decoupling signal integrity for embedding FPGAs within a PCB based design With this book engineers will be able to Use PLD technology to develop digital and mixed signal electronic systems Develop PLD based designs using both schematic capture and VHDL synthesis techniques Interface a PLD to digital and mixed signal systems Undertake complete design exercises from design concept through to the build and test of PLD based electronic hardware This book will be ideal for electronic and computer engineering students taking a practical or Lab based course on digital systems development using PLDs and for engineers in industry looking for concrete advice on developing a digital system using a FPGA or CPLD as its core Case studies that provide a walk through of the design process highlighting the trade offs involved Discussion of real world issues such as choice of device pin out power supply power supply decoupling signal integrity for embedding FPGAs within a PCB based design

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