

EMBEDDED
SOPC DESIGN WITH
NIOS II PROCESSOR AND
VERILOG EXAMPLES



PONG P. CHU

WILEY

Embedded Sopc Design With Nios Ii Processor And Verilog Examples

**James O. Hamblen, Tyson S.
Hall, Michael D. Furman**



Embedded Sopc Design With Nios Ii Processor And Verilog Examples:

Embedded SoPC Design with Nios II Processor and Verilog Examples Pong P. Chu, 2012-05-14 Explores the unique hardware programmability of FPGA based embedded systems using a learn by doing approach to introduce the concepts and techniques for embedded SoPC design with Verilog. An SoPC system on a programmable chip integrates a processor, memory modules, I/O peripherals, and custom hardware accelerators into a single FPGA field programmable gate array device. In addition to the customized software, customized hardware can be developed and incorporated into the embedded system as well, allowing us to configure the soft core processor, create tailored I/O interfaces, and develop specialized hardware accelerators for computation intensive tasks. Utilizing an Altera FPGA prototyping board and its Nios II soft core processor, *Embedded SoPC Design with Nios II Processor and Verilog Examples* takes a learn by doing approach to illustrate the hardware and software design and development process by including realistic projects that can be implemented and tested on the board. Emphasizing hardware design and integration throughout, the book is divided into four major parts. Part I covers HDL and synthesis of custom hardware. Part II introduces the Nios II processor and provides an overview of embedded software development. Part III demonstrates the design and development of hardware and software for several complex I/O peripherals, including a PS2 keyboard and mouse, a graphic video controller, an audio codec, and an SD secure digital card. Part IV provides several case studies of the integration of hardware accelerators, including a custom GCD (greatest common divisor) circuit, a Mandelbrot set fractal circuit, and an audio synthesizer based on DDFS (direct digital frequency synthesis) methodology. While designing and developing an embedded SoPC can be rewarding, the learning can be a long and winding journey. This book shows the trail ahead and guides readers through the initial steps to exploit the full potential of this emerging methodology.

Embedded SoPC Design with Nios II Processor and VHDL Examples Pong P.

Chu, 2011-08-22 The book is divided into four major parts. Part I covers HDL constructs and synthesis of basic digital circuits. Part II provides an overview of embedded software development with the emphasis on low level I/O access and drivers. Part III demonstrates the design and development of hardware and software for several complex I/O peripherals, including PS2 keyboard and mouse, a graphic video controller, an audio codec, and an SD secure digital card. Part IV provides three case studies of the integration of hardware accelerators, including a custom GCD (greatest common divisor) circuit, a Mandelbrot set fractal circuit, and an audio synthesizer based on DDFS (direct digital frequency synthesis) methodology. The book utilizes FPGA devices, Nios II soft core processor, and development platform from Altera Co, which is one of the two main FPGA manufacturers. Altera has a generous university program that provides free software and discounted prototyping boards for educational institutions. Details at <http://www.altera.com/university>. The two main educational prototyping boards are known as DE1-99 and DE2-69. All experiments can be implemented and tested with these boards. A board combined with this book becomes a turn key solution for the SoPC design experiments and projects. Most HDL and C codes in the book are device

independent and can be adapted by other prototyping boards as long as a board has similar I O configuration **FPGA**

Prototyping by SystemVerilog Examples Pong P. Chu, 2018-05-30 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 **FPGA Prototyping by VHDL Examples** Pong P. Chu, 2018-01-25 A hands on introduction to FPGA

prototyping and SoC design This Second Edition of the popular book follows the same learning by doing approach to teach the fundamentals and practices of VHDL synthesis and FPGA prototyping It 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 strict design guidelines and coding practices used for large complex digital systems The new edition is completely updated 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 revised 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 DDS direct digital frequency synthesis module and an ADSR attack decay sustain release envelop 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 Introduces basic concepts of software hardware co design with Xilinx MicroBlaze MCS soft core processor Provides an overview of bus interconnect and interface circuit Introduces basic embedded system software development Suggests additional modules and peripherals for interesting and challenging projects The FPGA Prototyping by VHDL Examples Second Edition makes a natural companion text for introductory and advanced digital design courses and embedded system course It also serves as an ideal self teaching guide for practicing engineers who wish to learn more about this emerging area of interest

Recent Trends in Signal and Image Processing Siddhartha Bhattacharyya, Sankar K. Pal, Indrajit Pan, Abhijit Das, 2019-03-16 This book presents fascinating state of the art research findings in the field of signal and image processing It includes conference papers covering a wide range of signal processing applications involving filtering encoding classification segmentation clustering feature extraction denoising watermarking object recognition reconstruction and fractal analysis It addresses various types of signals such as image video speech non speech audio handwritten text geometric diagram ECG and EMG signals MRI PET and CT scan images THz signals solar wind speed signals SWS and photoplethysmogram PPG signals and demonstrates how new paradigms of intelligent computing like quantum computing can be applied to process and analyze signals precisely and effectively The book also discusses applications of hybrid methods algorithms and image filters which are proving to be better than the individual techniques or algorithms

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

Rapid Prototyping of Digital Systems James O. Hamblen, Tyson S. Hall, Michael D. Furman, 2007-09-26 New to this edition is an introduction to embedded operating systems for SOPC designs Featuring four accelerated tutorials on the Quartus II and Nios II design environments this edition progresses from introductory

programmable logic to full scale SOPC design integrating hardware implementation software development operating system support state of the art I O and IP cores This edition features Altera s new 7 1 Quartus II CAD and Nios II SOPC tools and includes projects for Altera s DE1 DE2 UP3 UP2 and UP1 FPGA development boards *Rapid Prototyping of Digital Systems* James O. Hamblen, Tyson S. Hall, Michael D. Furman, 2006-01-16 Rapid Prototyping of Digital Systems Quartus II Edition provides an exciting and challenging laboratory component for undergraduate digital logic and computer design courses using FPGAs and CAD tools for simulation and hardware implementation The more advanced topics and exercises also make this text useful for upper level courses in digital logic programmable logic and embedded systems This new version of the widely used Rapid Prototyping of Digital Systems Second Edition now uses Altera s new Quartus II CAD tool and includes laboratory projects for Altera s UP 2 and the new UP 3 FPGA board Rapid Prototyping of Digital Systems Quartus II Edition includes four tutorials on the Altera Quartus II and NIOS II tool environment an overview of programmable logic and IP cores with several easy to use input and output functions These features were developed to help students get started quickly Early design examples use schematic capture and IP cores developed for the Altera UP FPGA boards VHDL is used for more complex designs after a short introduction to VHDL based synthesis New to this edition is an overview of System on a Programmable Chip SOPC technology and SOPC design examples for the UP3 using Altera s new NIOS II Processor hardware and C software development tools 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 *Soft Core Processor Using Fpga* Sangita Pokale, 2013 This book present an application study in data logging device The new kind of soft core processor was designed based on NIOS II technology The device make use of NIOS II processor provided by ALT ERA to be implemented in FPGA NIOS II is a versatile embedded processor family that presents high performance and has been created for FPGA Author targets implementation NIOS II soft core processor from Altera FPGA Platform Also one of the FPGA vendor XILINX are providing Micro Blaze Pico Blaze RISC architecture This is of 32 bit processing architecture Author has implemented one simple digital circuit design on implementation of 8 bit asynchronous counter along with multiplexed seven segments LED Display Driver For HDL based circuit design Xilinx synthesis tool version 9 1 was used Also after having success in this implementation author has implemented NIOSII soft core processor using QuartusII 10 1 SOPC Builder Tool from Altera It reduces the hardware without changing the design by using SOPC approach It will definitely help the people who are having the field interest in FPGA ALTERA and NIOS II **Embedded Microprocessor System Design using FPGAs** Uwe Meyer-Baese, 2025-05-29 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 New additions in the second edition include bottom up and top down FPGA based Linux OS system designs for Altera Intel and Xilinx boards and application development running on the OS using modern popular programming languages Python Java and JavaScript HTML CSSs 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 For the three new OS enabled programming languages a substantial number of examples ranging from basic math and networking to image processing and video animations are provided Each Chapter has a substantial number of short quiz questions exercises and challenging projects

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. *Practical FPGA Programming in C* David Pellerin, Scott Thibault, 2005. FPGA brings high performance applications to market quickly; this book covers the many emerging platforms in a proven effective manner.

VLSI Chip Design with the Hardware Description Language VERILOG Ulrich Golze, 2014-08-23. The art of transforming a circuit idea into a chip has changed permanently. Formerly the electrical, physical, and geometrical tasks were predominant. Later mainly net lists of gates had to be constructed. Nowadays hardware description languages (HDL) similar to programming languages are central to digital circuit design. HDL-based design is the main subject of this book. After emphasizing the economic importance of chip design as a key technology, the book deals with VLSI design. Very Large Scale Integration, the design of modern RISC processors, the hardware description language VERILOG, and typical modeling techniques. Numerous examples as well as a VERILOG training simulator are included on a disk.

Specification and Design of Embedded Systems Daniel D. Gajski, 1994. This is the first book on embedded systems to offer a unified approach to hardware and software specification and design issues and the first to outline a new specify-explore-refine paradigm that is presently being used in industry in an ad hoc manner but until now has not been formally described. The book addresses the system design methodology from conceptualization to manufacturing using this new paradigm and shows how this methodology can result in 10x improvement in productivity. Addresses two of the most significant topics in the design of digital systems: executable system specification and a methodology for system partitioning and refinement into system-level components. Covers models and architectures, specification languages, a specification example, translation to VHDL, system partitioning, design quality estimation, specification refinement into synthesizable models, and system design methodology and environment. Contains a complete specification of a model product telephone answering machine and demonstrates how to write the specification from an English description. For RISC design methodologists and VHDL methodologists and CAD software developers.

Embedded Processor Design Challenges Ed F. Deprettere, Jürgen Teich, Stamatis Vassiliadis, 2002-03-13. This book presents a coherent introduction to and an overview of state-of-the-art techniques in the design of complex embedded systems. The volume brings together revised papers initially presented at a workshop held at Samos, Greece, in July and reviewed invited articles. The papers are organized in topical sections on system-level design and simulation, compiler and mapping technology, embedded processor and architectures, and applications.

Hands-on Experience with Altera FPGA Development Boards Jivan S. Parab, Rajendra S. Gad, G.M. Naik, 2017-11-08. This book is built around the use of readymade soft processor cores for FPGA design. In particular, the book focuses on Altera FPGA boards. The book explores many different embedded systems needs and prepares its readers for hands-on design and development of such systems. Many worked-out examples and case studies have been included to enable a clear understanding of design concepts. Primarily designed as a

textbook for core or lab courses on FPGA based embedded systems this book will appeal to students and instructors alike The book takes an autodidactic approach which also makes it suitable for hobbyists and practitioners looking to acquaint themselves with Altera FPGA boards

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