Rapid System Prototyping with FPGAs

Accelerating the Design Process

R.C. COFER AND BEN HARDING

Rapid System Prototyping With Fpgas Accelerating The Design Process

Doug Amos,Austin Lesea,Rene Richter

Rapid System Prototyping With Fpgas Accelerating The Design Process:

   Rapid System Prototyping with FPGAs R. C. Cofer,Benjamin F. Harding,2011-03-31 The push to move products to market as quickly and cheaply as possible is fiercer than ever and accordingly engineers are always looking for new ways to provide their companies with the edge over the competition Field Programmable Gate Arrays FPGAs which are faster denser and more cost effective than traditional programmable logic devices PLDs are quickly becoming one of the most widespread tools that embedded engineers can utilize in order to gain that needed edge FPGAs are especially popular for prototyping designs due to their superior speed and efficiency This book hones in on that rapid prototyping aspect of FPGA use showing designers exactly how they can cut time off production cycles and save their companies money drained by costly mistakes via prototyping designs with FPGAs first Reading it will take a designer with a basic knowledge of implementing FPGAs to the next level of FPGA use because unlike broad beginner books on FPGAs this book presents the required design skills in a focused practical example oriented manner In the trenches expert authors assure the most applicable advice to practicing engineers Dual focus on successfully making critical decisions and avoiding common pitfalls appeals to engineers pressured for speed and perfection Hardware and software are both covered in order to address the growing trend toward cross pollination of engineering expertise   **FPGA-based Prototyping Methodology Manual** Doug Amos,Austin Lesea,Rene Richter,2011 This book collects the best practices FPGA based Prototyping of SoC and ASIC devices into one place for the first time drawing upon not only the authors own knowledge but also from leading practitioners worldwide in order to present a snapshot of best practices today and possibilities for the future The book is organized into chapters which appear in the same order as the tasks and decisions which are performed during an FPGA based prototyping project We start by analyzing the challenges and benefits of FPGA based Prototyping and how they compare to other prototyping methods We present the current state of the available FPGA technology and tools and how to get started on a project The FPMM also compares between home made and outsourced FPGA platforms and how to analyze which will best meet the needs of a given project The central chapters deal with implementing an SoC design in FPGA technology including clocking conversion of memory partitioning multiplexing and handling IP amongst many other subjects The important subject of bringing up the design on the FPGA boards is covered next including the introduction of the real design into the board running embedded software upon it in and debugging and iterating in a lab environment Finally we explore how the FPGA based Prototype can be linked into other verification methodologies including RTL simulation and virtual models in SystemC Along the way the reader will discover that an adoption of FPGA based Prototyping from the beginning of a project and an approach we call Design for Prototyping will greatly increase the success of the prototype and the whole SoC project especially the embedded software portion Design for Prototyping is introduced and explained and promoted as a manifesto for better SoC design Readers can approach the subjects from a number of directions Some will be experienced with many of the tasks involved in

FPGA based Prototyping but are looking for new insights and ideas others will be relatively new to the subject but experienced in other verification methodologies still others may be project leaders who need to understand if and how the benefits of FPGA based prototyping apply to their next SoC project We have tried to make each subject chapter relatively standalone or where necessary make numerous forward and backward references between subjects and provide recaps of certain key subjects We hope you like the book and we look forward to seeing you on the FPMM on line community soon go to www synopsys com fpmm   Handbook of Signal Processing Systems Shuvra S. Bhattacharyya,Ed F. Deprettere,Rainer Leupers,Jarmo Takala,2013-06-20 Handbook of Signal Processing Systems is organized in three parts The first part motivates representative applications that drive and apply state of the art methods for design and implementation of signal processing systems the second part discusses architectures for implementing these applications the third part focuses on compilers and simulation tools describes models of computation and their associated design tools and methodologies This handbook is an essential tool for professionals in many fields and researchers of all levels   *Emerging Networking in the Digital Transformation Age* Mikhailo Klymash,Andriy Luntovskyy,Mykola Beshley,Igor Melnyk,Alexander Schill,2023-03-20 This book covers a range of leading edge topics It is suitable for teaching specialists for advanced lectures in the domains of systems architecture and distributed platforms Furthermore it serves as a basis for undergraduates as well as an inspiration for interesting postgraduates looking for new challenges It addresses a holistic view of QoS which becomes nowadays via Digital Transformations less technically and more socially driven This includes IoT energy efficiency secure transactions blockchains and smart contracting Under the term Emerging Networking EmN we cover the steadily growing diversity of smart mobile and robotic apps and unmanned scenarios UAV EmN supports distributed intelligence across the combined mobile wireless and fixed networks in the edge to cloud continuum The 6G driving factors and potentials in the mid term are examined Operative emergency networking which assists rescue troops at sites also belongs to the above mentionedproblems The EmN architecture includes the components of SDN blockchain and AI with efficient slicing and cloud support The design peculiarities in dynamically changing domains such as Smart Shopping Office Home Context Sensitive Intelligent apps are discussed Altogether the provided content is technically interesting while still being rather practically oriented and therefore straightforward to understand This book originated from the close cooperation of scientists from Germany Ukraine Israel Switzerland Slovak Republic Poland Czech Republic South Korea China Italy North Macedonia Azerbaijan Kazakhstan France Latvia Greece Romania USA Finland Morocco Ireland and the United Kingdom We wish all readers success and lots of inspiration from this useful book   **MULTICORE SYSTEMS ON-CHIP** Ben Abadallah Abderazek,2010-08-01 Conventional on chip communication design mostly use ad hoc approaches that fail to meet the challenges posed by the next generation MultiCore Systems on chip MCSoC designs These major challenges include wiring delay predictability diverse interconnection architectures and power dissipation A Network on Chip NoC paradigm is emerging as the solution for the

problems of interconnecting dozens of cores into a single system on chip However there are many problems associated with the design of such systems These problems arise from non scalable global wire delays failure to achieve global synchronization and difficulties associated with non scalable bus based functional interconnects The book consists of three parts with each part being subdivided into four chapters The first part deals with design and methodology issues The architectures used in conventional methods of MCSoCs design and custom multiprocessor architectures are not flexible enough to meet the requirements of different application domains and not scalable enough to meet different computation needs and different complexities of various applications Several chapters of the first part will emphasize on the design techniques and methodologies The second part covers the most critical part of MCSoCs design the interconnections One approach to addressing the design methodologies is to adopt the so called reusability feature to boost design productivity In the past years the primitive design units evolved from transistors to gates finite state machines and processor cores The network on chip paradigm offers this attractive property for the future and will be able to close the productivity gap The last part of this book delves into MCSoCs validations and optimizations A more qualitative approach of system validation is based on the use of formal techniques for hardware design The main advantage of formal methods is the possibility to prove the validity of essential designrequirements As formal languages have a mathematical foundation it is possible to formally extract and verify these desired properties of the complete abstract state space Online testing techniques for identifying faults that can lead to system failure are also surveyed Emphasis is given to analytical redundancy based techniques that have been developed for fault detection and isolation in the automatic control area   *Advances in Computers* ,1995-09-11 Praise for the SeriesMandatory for academic libraries supporting computer science departments CHOICESince its first volume in 1960 Advances in Computers has presented detailed coverage of innovations in computer hardware software theory design and applications It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field   *FPGAs* Juan Jose Rodriguez Andina,Eduardo de la Torre Arnanz,Maria Dolores Valdes,2017-07-28 Field Programmable Gate Arrays FPGAs are currently recognized as the most suitable platform for the implementation of complex digital systems targeting an increasing number of industrial electronics applications They cover a huge variety of application areas such as aerospace food industry art industrial automation automotive biomedicine process control military logistics power electronics chemistry sensor networks robotics ultrasound security and artificial vision This book first presents the basic architectures of the devices to familiarize the reader with the fundamentals of FPGAs before identifying and discussing new resources that extend the ability of the devices to solve problems in new application domains Design methodologies are discussed and application examples are included for some of these domains e g mechatronics robotics and power systems   **12th International Workshop on Rapid System**

Prototyping IEEE Computer Society. Design Automation Technical Committee,2001 The proceedings from the June 2001 conference in Monterey California include 30 papers on hardware case studies reconfiguring computing communications systems distributed prototyping systems modeling model based prototyping efficient evaluation methodologies and tools Keynote addresses on *WESCON ... Conference Record* ,1990 *Rapid Prototyping of Digital Systems* James O. Hamblen,Michael D. Furman,2004-06-30 Rapid Prototyping of Digital Systems Second Edition provides an exciting and challenging laboratory component for an undergraduate digital logic design class The more advanced topics and exercises are also appropriate for consideration at schools that have an upper level course in digital logic or programmable logic Design engineers working in industry will also want to consider this book for a rapid introduction to FPLD technology and logic synthesis using commercial CAD tools especially if they have not had previous experience with the new and rapidly evolving technology Two tutorials on the Altera CAD tool environment an overview of programmable logic and a design library with several easy to use input and output functions were developed for this book to help the reader get started quickly Early design examples use schematic capture and library components VHDL is used for more complex designs after a short introduction to VHDL based synthesis A coupon is included with the text for purchase of the new UP 1X board The additional logic and memory in the UP 1X s FLEX 10K70 is useful on larger design projects such as computers and video games The second edition includes an update chapter on programmable logic new robot sensors and projects optional Verilog examples and a meta assembler which can be used to develop assemble language programs for the computer designs in Chapters 8 and 13 Advanced Digital Systems Design with Rapid Prototyping on FPGAs Using VHDL Lucien Ngalamou,2012-08-01 Advanced Digital Systems Design with Rapid Prototyping on FPGAs using VHDL aims to provide students researcher and hardware designers in electrical computer engineering with a reference manual that covers the main aspects of hardware implementation of complex algorithms in the field of digital technology using FPGAs 1999 IEEE International Conference on Acoustics, Speech, and Signal Processing ,1999 **Electrical & Electronics Abstracts** ,1994 **Rapid Prototyping of Digital Systems** James O. Hamblen,Tyson S. Hall,Michael D. Furman,2006 Rapid Prototyping of Digital Systems 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 **Rapid Prototyping of Digital Systems** James O. Hamblen,2007 IEEE Symposium on FPGAs for Custom Computing Machines Kenneth L. Pocek,Jeffrey M. Arnold,1996 Contains papers from the April 1996 symposium reporting on research in device architectures applications compilers and related software support Topics include using MORRPH in an industrial machine vision system a software development system for FPGA based data acquisition systems a reconfigura Prototypical Don Dingee,Daniel Nenni,2016-05-21 The first half of PROTOTYPICAL is a concise history of FPGA based prototyping We go back to the beginning briefly introducing the debut of the Altera EP300 in 1984 and the Xilinx XC2064 in 1985 We then discuss the tipping point for what would

become FPGA based prototyping the introduction of the Quickturn Systems RPM in May 1988 Strictly speaking the RPM was an FPGA based hardware emulator but it set the stage for a radical change in chip development methodology Intel took the Quickturn technology and put the P5 microarchitecture through its paces on a 14 machine cluster running a killer demo in 1991 and ultimately releasing the Pentium microprocessor in 1993 From there while the large EDA firms scuffled over bigger and bigger hardware emulation capability several academic teams started deploying FPGAs for reconfigurable computing and rapid prototyping These teams were looking for lower cost ways to prove out algorithms and chip designs It was during this period issues of FPGA interconnect and synthesis partitioning were uncovered and addressed and just in time as ARM7TDMI synthesizable cores appeared in 1997 We then launch into chapters with brief timelines of three of the major firms in FPGA based prototyping S2C Synopsys and Cadence We close the first half with a look at where FPGA based prototyping is headed including how it can help application segments such as automotive wearables and the IoT three segments we believe will see an increasing number of design starts as new players seek to optimize and differentiate their software through chip design The second half of PROTOTYPICAL is an all new Field Guide titled Implementing an FPGA Prototyping Methodology authored by the teams at S2C It looks at when design teams need an FPGA based prototyping solution how to choose one and how to be sure the platform is scalable including a look at the latest cloud based implementations It then dives into the methodology setting up a prototype partitioning interconnect debugging and exercising a design It s a practical view of the questions teams have and the issues they run into and how to solve them

<u>Proceedings</u> ICASSP (24, 1999, Phoenix, Ariz.),1999   **IEEE Circuits & Devices** ,2001   **International Aerospace Abstracts** ,1996

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