

Design Compiler® User Guide

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SYNOPSYS®

Synopsys Design Compiler User Guide

Egon Börger



Synopsys Design Compiler User Guide:

Design of Energy-Efficient Application-Specific Instruction Set Processors Tilman Glökler, Heinrich Meyr, 2007-05-08

After a brief introduction to low power VLSI design the design space of ASIP instruction set architectures ISAs is introduced with a special focus on important features for digital signal processing Based on the degrees of freedom offered by this design space a consistent ASIP design flow is proposed this design flow starts with a given application and uses incremental optimization of the ASIP hardware of ASIP coprocessors and of the ASIP software by using a top down approach and by applying application specific modifications on all levels of design hierarchy A broad range of real world signal processing applications serves as vehicle to illustrate each design decision and provides a hands on approach to ASIP design Finally two complete case studies demonstrate the feasibility and the efficiency of the proposed methodology and quantitatively evaluate the benefits of ASIPs in an industrial context

Ultra-Low Energy Domain-Specific Instruction-Set Processors Francky Catthoor, Praveen Raghavan, Andy Lambrechts, Murali Jayapala, Angeliki Kritikakou, Javed Absar, 2010-08-05 Modern consumers carry many electronic devices like a mobile phone digital camera GPS PDA and an MP3 player The functionality of each of these devices has gone through an important evolution over recent years with a steep increase in both the number of features as in the quality of the services that they provide However providing the required compute power to support an uncompromised combination of all this functionality is highly non trivial Designing processors that meet the demanding requirements of future mobile devices requires the optimization of the embedded system in general and of the embedded processors in particular as they should strike the correct balance between flexibility energy efficiency and performance In general a designer will try to minimize the energy consumption as far as needed for a given performance with a sufficient flexibility However achieving this goal is already complex when looking at the processor in isolation but in reality the processor is a single component in a more complex system In order to design such complex system successfully critical decisions during the design of each individual component should take into account effect on the other parts with a clear goal to move to a global Pareto optimum in the complete multi dimensional exploration space In the complex global design of battery operated embedded systems the focus of Ultra Low Energy Domain Specific Instruction Set Processors is on the energy aware architecture exploration of domain specific instruction set processors and the co optimization of the datapath architecture foreground memory and instruction memory organisation with a link to the required mapping techniques or compiler steps at the early stages of the design By performing an extensive energy breakdown experiment for a complete embedded platform both energy and performance bottlenecks have been identified together with the important relations between the different components Based on this knowledge architecture extensions are proposed for all the bottlenecks

Digital Logic Design Using Verilog Vaibbhav Taraate, 2021-10-31 This second edition focuses on the thought process of digital design and implementation in the context of VLSI and system design It covers the Verilog 2001 and Verilog 2005 RTL

design styles constructs and the optimization at the RTL and synthesis level The book also covers the logic synthesis low power multiple clock domain design concepts and design performance improvement techniques The book includes 250 design examples illustrations and 100 exercise questions This volume can be used as a core or supplementary text in undergraduate courses on logic design and as a text for professional and vocational coursework In addition it will be a hands on professional reference and a self study aid for hobbyists

Electromigration Inside Logic Cells Gracieli Posser,Sachin S. Sapatnekar,Ricardo Reis,2016-11-26 This book describes new and effective methodologies for modeling analyzing and mitigating cell internal signal electromigration in nanoCMOS with significant circuit lifetime improvements and no impact on performance area and power The authors are the first to analyze and propose a solution for the electromigration effects inside logic cells of a circuit They show in this book that an interconnect inside a cell can fail reducing considerably the circuit lifetime and they demonstrate a methodology to optimize the lifetime of circuits by placing the output Vdd and Vss pin of the cells in the less critical regions where the electromigration effects are reduced Readers will be enabled to apply this methodology only for the critical cells in the circuit avoiding impact in the circuit delay area and performance thus increasing the lifetime of the circuit without loss in other characteristics

Architecture of Computing Systems - ARCS 2009 Mladen Berekovic,Christian Müller-Schloer,Christian Hochberger,Stephan Wong,2009-02-19 This book constitutes the refereed proceedings of the 22nd International Conference on Architecture of Computing Systems ARCS 2009 held in Delft The Netherlands in March 2009 The 21 revised full papers presented together with 3 keynote papers were carefully reviewed and selected from 57 submissions This year s special focus is set on energy awareness The papers are organized in topical sections on compilation technologies reconfigurable hardware and applications massive parallel architectures organic computing memory architectures energy awareness Java processing and chip level multiprocessing

High Performance Embedded Architectures and Compilers Per Stenström,Michel Dubois,Manolis Katevenis,Rajiv Gupta,Theo Ungerer,2008-01-15 This highly relevant and up to the minute book constitutes the refereed proceedings of the Third International Conference on High Performance Embedded Architectures and Compilers HiPEAC 2008 held in Göteborg Sweden January 27 29 2008 The 25 revised full papers presented together with 1 invited keynote paper were carefully reviewed and selected from 77 submissions The papers are organized into topical sections on a number of key subjects in the field

Transaction-Level Power Modeling Amr Baher Darwish,Magdy Ali El-Moursy,Mohamed Amin Dessouky,2019-08-01 This book describes for readers a methodology for dynamic power estimation using Transaction Level Modeling TLM The methodology exploits the existing tools for RTL simulation design synthesis and SystemC prototyping to provide fast and accurate power estimation using Transaction Level Power Modeling TLPM Readers will benefit from this innovative way of evaluating power on a high level of abstraction at an early stage of the product life cycle decreasing the number of the expensive design iterations

Emerging Memory and Computing Devices in the Era of Intelligent Machines Pedram Khalili

Amiri,2020-04-16 Computing systems are undergoing a transformation from logic centric towards memory centric architectures where overall performance and energy efficiency at the system level are determined by the density performance functionality and efficiency of the memory rather than the logic sub system This is driven by the requirements of data intensive applications in artificial intelligence autonomous systems and edge computing We are at an exciting time in the semiconductor industry where several innovative device and technology concepts are being developed to respond to these demands and capture shares of the fast growing market for AI related hardware This special issue is devoted to highlighting discussing and presenting the latest advancements in this area drawing on the best work on emerging memory devices including magnetic resistive phase change and other types of memory The special issue is interested in work that presents concepts ideas and recent progress ranging from materials to memory devices physics of switching mechanisms circuits and system applications as well as progress in modeling and design tools Contributions that bridge across several of these layers are especially encouraged **Digital Integrated Circuit Design Using Verilog and Systemverilog** Ronald W. Mehler,2014-09-30 For those with a basic understanding of digital design this book teaches the essential skills to design digital integrated circuits using Verilog and the relevant extensions of SystemVerilog In addition to covering the syntax of Verilog and SystemVerilog the author provides an appreciation of design challenges and solutions for producing working circuits The book covers not only the syntax and limitations of HDL coding but deals extensively with design problems such as partitioning and synchronization helping you to produce designs that are not only logically correct but will actually work when turned into physical circuits Throughout the book many small examples are used to validate concepts and demonstrate how to apply design skills This book takes readers who have already learned the fundamentals of digital design to the point where they can produce working circuits using modern design methodologies It clearly explains what is useful for circuit design and what parts of the languages are only software providing a non theoretical practical guide to robust reliable and optimized hardware design and development Produce working hardware Covers not only syntax but also provides design know how addressing problems such as synchronization and partitioning to produce working solutions Usable examples Numerous small examples throughout the book demonstrate concepts in an easy to grasp manner Essential knowledge Covers the vital design topics of synchronization essential for producing working silicon asynchronous interfacing techniques and design techniques for circuit optimization including partitioning *Closing the Power Gap between ASIC & Custom* David Chinnery,Kurt Keutzer,2008-01-23 Explains how to use low power design in an automated design flow and examine the design time and performance trade offs Includes the latest tools and techniques for low power design applied in an ASIC design flow Focuses on low power in an automated design methodology a much neglected area **Design and Modeling of Low Power VLSI Systems** Sharma, Manoj,Gautam, Ruchi,Khan, Mohammad Ayoub,2016-06-06 Very Large Scale Integration VLSI Systems refer to the latest development in computer microchips which are created by integrating hundreds of

thousands of transistors into one chip Emerging research in this area has the potential to uncover further applications for VLSI technologies in addition to system advancements Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization Through a research based discussion of the technicalities involved in the VLSI hardware development process cycle this book is a useful resource for researchers engineers and graduate level students in computer science and engineering **VLSI-SoC: From Algorithms to Circuits and System-on-Chip Design** Andreas Burg,Ayse Coskun,Matthew Guthaus,Srinivas Katkoori,Ricardo Reis,2013-11-26 This book contains extended and revised versions of the best papers presented at the 20th IFIP WG 10.5 IEEE International Conference on Very Large Scale Integration VLSI SoC 2012 held in Santa Cruz CA USA in October 2012 The 12 papers included in the book were carefully reviewed and selected from the 33 full papers presented at the conference The papers cover a wide range of topics in VLSI technology and advanced research They address the current trend toward increasing chip integration and technology process advancements bringing about stimulating new challenges both at the physical and system design levels as well as in the test of these systems **Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation**

Vassilis Paliouras,Johan Vounckx,Diederik Verkest,2005-08-25 Welcome to the proceedings of PATMOS 2005 the 15th in a series of international workshops PATMOS2005wasorganizedbyIMECwithtechnicalco sponsorshipfrom the IEEE Circuits and Systems Society Over the years PATMOS has evolved into an important European event where searchers from both industry and academia discuss and investigate the emerging ch lenges in future and contemporary applications design methodologies and tools quired for the developmentof upcominggenerationsof integrated circuits and systems The technical program of PATMOS 2005 contained state of the art technical contri tions three invited talks a special session on hearing aid design and an embedded torial The technical program focused on timing performance and power consumption as well as architectural aspects with particular emphasis on modeling design char terization analysis and optimization in the nanometer era The Technical Program Committee with the assistance of additional expert revi ers selected the 74 papers to be presented at PATMOS The papers were divided into 11 technical sessions and 3 poster sessions As is always the case with the PATMOS workshops the review process was anonymous full papers were required and several reviews were carried out per paper Beyond the presentations of the papers the PATMOS technical program was riched by a series of speeches offered by world class experts on important emerging research issues of industrial relevance Prof Jan Rabaey Berkeley USA gave a talk on Traveling the Wild Frontier of Ulta Low Power Design Dr Sung Bae Park S sung gave a presentation on DVL Deep Low Voltage Circuits and Devices Prof **Cryptographic Hardware and Embedded Systems -- CHES 2010** Stefan Mangard,Francois-Xavier Standaert,2010-08-08 Annotation This book constitutes the refereed proceedings of the 12th International Workshop on Cryptographic Hardware and Embedded Systems CHES 2010 held in Santa Barbara USA during

August 17 20 2010 This year it was co located with the 30th International Cryptology Conference CRYPTO The book contains 2 invited talks and 30 revised full papers which were carefully reviewed and selected from 108 submissions The papers are organized in topical sections on low cost cryptography efficient implementation side channel attacks and countermeasures tamper resistance hardware trojans PUFs and RNGs

Algorithms and VLSI Implementations of MIMO Detection Ibrahim A. Bello, Basel Halak, 2022-07-22 This book provides a detailed overview of detection algorithms for multiple input multiple output MIMO communications systems focusing on their hardware realisation The book begins by analysing the maximum likelihood detector which provides the optimal bit error rate performance in an uncoded communications system However the maximum likelihood detector experiences a high complexity that scales exponentially with the number of antennas which makes it impractical for real time communications systems The authors proceed to discuss lower complexity detection algorithms such as zero forcing sphere decoding and the K best algorithm with the aid of detailed algorithmic analysis and several MATLAB code examples Furthermore different design examples of MIMO detection algorithms and their hardware implementation results are presented and discussed Finally an ASIC design flow for implementing MIMO detection algorithms in hardware is provided including the system simulation and modelling steps and register transfer level modelling using hardware description languages Provides an overview of MIMO detection algorithms and discusses their corresponding hardware implementations in detail Highlights architectural considerations of MIMO detectors in achieving low power consumption and high throughput Discusses design tradeoffs that will guide readers efforts when implementing MIMO algorithms in hardware Describes a broad range of implementations of different MIMO detectors enabling readers to make informed design decisions based on their application requirements

Field Programmable Logic and Applications Patrick Lysaght, James Irvine, Reiner Hartenstein, 2004-06-22 This book contains the papers presented at the 9th International Workshop on Field Programmable Logic and Applications FPL 99 hosted by the University of Strathclyde in Glasgow Scotland August 30 September 1 1999 FPL 99 is the ninth in the series of annual FPL workshops The FPL 99 programme committee has been fortunate to have received a large number of high quality papers addressing a wide range of topics From these 33 papers have been selected for presentation at the workshop and a further 32 papers have been accepted for the poster sessions A total of 65 papers from 20 countries are included in this volume FPL is a subject area that attracts researchers from both electronic engineering and computer science Whether we are engaged in research into software or hardware seems to be primarily a question of perspective What is unquestionable is that the interaction of groups of researchers from different backgrounds results in stimulating and productive research As we prepare for the new millennium the premier European forum for researchers in embedded programmable logic remains the FPL workshop Next year the FPL series of workshops will celebrate its tenth anniversary The contribution of so many overseas researchers has been a particularly attractive feature of these events giving them a truly international perspective while the informal and convivial

atmosphere that pervades the workshops have been their hallmark We look forward to preserving these features in the future while continuing to expand the size and quality of the events

Architecture Design and Validation Methods Egon Börger, 2012-12-06 This book grew out of material which was taught at the International Summer School on Architecture Design and Validation Methods held June 23 July 5 1997 on the Island of Lipari and directed to graduate students and young researchers Since then the course notes have been completely elaborated and extended and additional chapters have been added so that this book offers a comprehensive presentation of the state of the art which leads the reader to the forefront of the current research in the area The chapters each of which was written by a group of eminent specialists in the field are self contained and can be read independently of each other They cover the wide range of theoretical and practical methods which currently used for the specification design validation and verification of hardware software architectures Synthesis methods are the subject of the first three chapters The chapter on Modeling and Synthesis of Behavior Control and Data Flow focusses on techniques above the register transfer level The chapter on Cell Based Logic Optimizations concentrates on methods that interface logic design with physical design in particular on techniques for cell library binding the back end of logic synthesis The chapter on A Design Flow for Performance Planning presents new paradigms for iteration free synthesis where global wire plans for meeting timing constraints already appear at the conceptual design stage even before fixing the functionality of the blocks in the plan

PROCEEDINGS OF THE 23RD CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2023 Alexander Nadel ,Kristin Yvonne Rozier, 2023-10-13 The Conference on Formal Methods in Computer Aided Design FMCAD is an annual conference on the theory and applications of formal methods in hardware and system in academia and industry for presenting and discussing groundbreaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system testing

Logic Synthesis Using Synopsys® Pran Kurup, Taher Abbasi, 2013-06-29 Logic synthesis has become a fundamental component of the ASIC design flow and Logic Synthesis Using Synopsys has been written for all those who dislike reading manuals but who still like to learn logic synthesis as practised in the real world The primary focus of the book is Synopsys Design Compiler the leading synthesis tool in the EDA marketplace The book is specially organized to assist designers accustomed to schematic capture based design to develop the required expertise to effectively use the Compiler Over 100 classic scenarios faced by designers using the Design Compiler have been captured and discussed and solutions provided The scenarios are based both on personal experiences and actual user queries A general understanding of the problem solving techniques provided will help the reader debug similar and more complicated problems Furthermore several examples and dc shell scripts are provided Specifically Logic Synthesis Using Synopsys will help the reader develop a better understanding of the synthesis design flow optimization strategies using the Design Compiler test insertion using the Test Compiler commonly used interface formats such as EDIF and SDF and design re use in a synthesis based design methodology

Examples have been provided in both VHDL and Verilog Audience Written with CAD engineers in mind to enable them to formulate an effective synthesis based ASIC design methodology Will also assist design teams to better incorporate and effectively integrate synthesis with their existing in house design methodology and CAD tools *Constraining Designs for Synthesis and Timing Analysis* Sridhar Gangadharan, Sanjay Churiwala, 2014-07-08 This book serves as a hands on guide to timing constraints in integrated circuit design Readers will learn to maximize performance of their IC designs by specifying timing requirements correctly Coverage includes key aspects of the design flow impacted by timing constraints including synthesis static timing analysis and placement and routing Concepts needed for specifying timing requirements are explained in detail and then applied to specific stages in the design flow all within the context of Synopsys Design Constraints SDC the industry leading format for specifying constraints

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