

Youn-Long Steve Lin
Editor

Essential Issues in SOC Design

*Designing Complex
Systems-on-Chip*



Springer

Essential Issues In Soc Design Designing Complex Systems On Chip

Youn-Long Steve Lin



Essential Issues In Soc Design Designing Complex Systems On Chip:

Essential Issues in SOC Design Youn-Long Steve Lin, 2006 Essential Issues in SOC Design Youn-Long Steve Lin, 2007-05-31 This book originated from a workshop held at the DATE 2005 conference namely Designing Complex SOC's State of the art in issues related to System on Chip SoC design by leading experts in the fields covers IP development verification integration chip implementation testing and software SOC design is fast becoming the key area of focus that engineers and researchers from the Electronic Design Automation field are focusing on in their quest to further develop Integrated Circuit technology The more systems and even networks that we can integrate on one piece of silicon the faster cheaper more powerful and efficient the technology will become Essential Issues in SOC Design contains valuable academic and industrial examples for those involved with the design of complex SOC's all contributors are selected from a region of the world that is generally known to lead the SOC Revolution namely Asia Mobile Multimedia Broadcasting Standards Fa-Long Luo, 2008-11-24 Mobile multimedia broadcasting compasses a broad range of topics including radio propagation modulation and demodulation error control signal compression and coding transport and time slicing system on chip real time implementation in hardware software and system levels The major goal of this technology is to bring multimedia enriched contents to handheld devices such as mobile phones portable digital assistants and media players through radio transmission or internet protocol IP based broadband networks Research and development of mobile multimedia broadcasting technologies are now explosively growing and regarded as new killer applications A number of mobile multimedia broadcasting standards related to transmission compression and multiplexing now coexist and are being extensively further developed The development and implementation of mobile multimedia broadcasting systems are very challenging tasks and require the huge efforts of the related industry research and regulatory authorities so as to bring the success From an implementation design and engineering practice point of view this book aims to be the first single volume to provide a comprehensive and highly coherent treatment for multiple standards of mobile multimedia broadcasting by covering basic principles algorithms design trade off and well compared implementation system examples This book is organized into 4 parts with 22 chapters Silicon Photonics II David J. Lockwood, Lorenzo Pavesi, 2010-10-13 This book is volume II of a series of books on silicon photonics It gives a fascinating picture of the state of the art in silicon photonics from a component perspective It presents a perspective on what can be expected in the near future It is formed from a selected number of reviews authored by world leaders in the field and is written from both academic and industrial viewpoints An in depth discussion of the route towards fully integrated silicon photonics is presented This book will be useful not only to physicists chemists materials scientists and engineers but also to graduate students who are interested in the fields of micro and nanophotonics and optoelectronics *Reuse Methodology Manual for System-on-a-Chip Designs* Pierre Bricaud, 2007-05-08 This revised and updated third edition outlines a set of best practices for creating reusable designs for use in an System on a Chip SoC design methodology These practices

are based on the authors experience in developing reusable designs as well as the experience of design teams in many companies around the world *Surviving the SOC Revolution* Henry Chang,L.R. Cooke,Merrill Hunt,Grant Martin,Andrew McNelly, Lee Todd,2007-05-08 The aim of *Surviving the SOC Revolution A Guide to Platform Based Design* is to provide the engineering community with a thorough understanding of the challenges involved when moving to system on a chip and deliver a step by step methodology to get them there Design reuse is most effective in reducing the cost and development time when the components to be shared are close to the final implementation On the other hand it is not always possible or desirable to share designs at this level since minimal variations in specification can result in different albeit similar implementations However moving higher in abstraction can eliminate the differences among designs so that the higher level of abstraction can be shared and only a minimal amount of work needs to be carried out to achieve final implementation The ultimate goal is to create a library of functions and of hardware and software implementations that can be used for all new designs It is important to have a multilevel library since it is often the case that the lower levels that are closer to the physical implementation change because of the advances in technology while the higher levels tend to be stable across product versions It is most likely that the preferred approaches to the implementation of complex embedded systems will include the following aspects Design costs and time are likely to dominate the decision making process for systems designers Therefore design reuse in all its shapes and forms will be of paramount importance Designs have to be captured at the highest level of abstraction to be able to exploit all the degrees of freedom that are available Next generation systems will use a few highly complex Moore s Law Limited part types but many more energy power cost efficient medium complexity 10M 100M gates in 50nm technology chips working concurrently to implement solutions to complex sensing computing and signaling actuating problems Such chips will most likely be developed as an instance of a particular platform That is rather than being assembled from a collection of independently developed blocks of silicon functionality they will be derived from a specific family of micro architectures possibly oriented toward a particular class of problems that can be modified extended or reduced by the system developer These platforms will be highly programmable Both system and software reuse impose a design methodology that has to leverage existing implementations available at all levels of abstraction LIST This book deals with the basic principles of a design methodology that addresses the concerns expressed above The platform concept is carried throughout the book as a unifying theme to reuse This is the first book that deals with the platform based approach to the design of embedded systems and is a stepping stone for anyone who is interested in the real issues facing the design of complex systems on chip From the Preface by Alberto Sangiovanni Vincentelli [Surviving the SOC Revolution](#) ,

Multicore Systems On-Chip: Practical Software/Hardware Design Abderazek Ben Abdallah,2013-07-20 System on chips designs have evolved from fairly simple uncore single memory designs to complex heterogeneous multicore SoC architectures consisting of a large number of IP blocks on the same silicon To meet high computational demands posed by

latest consumer electronic devices most current systems are based on such paradigm which represents a real revolution in many aspects in computing The attraction of multicore processing for power reduction is compelling By splitting a set of tasks among multiple processor cores the operating frequency necessary for each core can be reduced allowing to reduce the voltage on each core Because dynamic power is proportional to the frequency and to the square of the voltage we get a big gain even though we may have more cores running As more and more cores are integrated into these designs to share the ever increasing processing load the main challenges lie in efficient memory hierarchy scalable system interconnect new programming paradigms and efficient integration methodology for connecting such heterogeneous cores into a single system capable of leveraging their individual flexibility Current design methods tend toward mixed HW SW co designs targeting multicore systems on chip for specific applications To decide on the lowest cost mix of cores designers must iteratively map the device s functionality to a particular HW SW partition and target architectures In addition to connect the heterogeneous cores the architecture requires high performance complex communication architectures and efficient communication protocols such as hierarchical bus point to point connection or Network on Chip Software development also becomes far more complex due to the difficulties in breaking a single processing task into multiple parts that can be processed separately and then reassembled later This reflects the fact that certain processor jobs cannot be easily parallelized to run concurrently on multiple processing cores and that load balancing between processing cores especially heterogeneous cores is very difficult

Essential Electronic Design Automation (EDA) Mark Birnbaum,2004 Describes the engineering needs addressed by the individual EDA tools and covers EDA from both the provider and user viewpoints Learn the importance of marketing and business trends in the EDA industry The EDA consortium is made up of major corporations including SUN HP and Intel

Project Development Simplified Fil A. Macias,2025-08-12 This book explains and outlines the use of hierarchical abstraction for project development The author details the need for effective strategies for project development and provides a thorough explanation of hierarchical abstraction The book instructs readers on how they may apply this method of organizing information or concepts into a layered structure in order to make ideas more manageable The author then explains how this process also simplifies the representation and analysis of information allowing readers to extract meaning and identify relationships within a system The book shows how hierarchical abstraction can also be implemented for more effective disbursement of information The author includes extensive discussion of the applications for a variety of fields including computer science information architecture and cognitive psychology

Microelectronics Education B. Courtois,N. Guillemot,G. Kamarinos,G. Stéhelin,2013-03-09 This is the third edition of the European Workshop on Microelectronics Education EWME A steady state regime has now been reached An international community of university teachers is constituted they exchange their experience and their pedagogical tools They discuss the best ways to transfer the rapidly changing techniques to their students and to introduce them to the new physical and mathematical concepts and models for

the innovative techniques devices circuits and design methods The number of abstracts submitted to EWME 2000 about one hundred enabled the scientific committee to proceed to a clear selection EWME is a European meeting Indeed authors from 20 different European countries contribute to this volume Nevertheless the participation of authors from Brazil Canada China New Zealand and USA shows that the workshop gradually attains an international dimension th The 20 century can be characterized as the century of electron The electron as an elementary particle was discovered by J J Thomson in 1897 and was rapidly used to transfer energy and information Thanks to electron universe and micro cosmos could be explored Electron became the omnipotent and omnipresent almost immaterial angel of our W orld This was made possible thanks to electronics and for the last 30 years to microelectronics Microelectronics not only modified and even radically transformed the industrial and the every day landscapes but it also led to the so called information revolution with which begins the 21 st century System-on-Chip for Real-Time Applications Wael Badawy, Graham A. Julien, 2012-12-06 System on Chip for Real Time Applications will be of interest to engineers both in industry and academia working in the area of SoC VLSI design and application It will also be useful to graduate and undergraduate students in electrical and computer engineering and computer science A selected set of papers from the 2nd International Workshop on Real Time Applications were used to form the basis of this book It is organized into the following chapters Introduction Design Reuse Modeling Architecture Design Techniques Memory Circuits Low Power Interconnect and Technology MEMS System on Chip for Real Time Applications contains many signal processing applications and will be of particular interest to those working in that community

Designing SOC's with Configured Cores Steve Leibson, 2006-08-15 Microprocessor cores used for SOC design are the direct descendents of Intel's original 4004 microprocessor Just as packaged microprocessor ICs vary widely in their attributes so do microprocessors packaged as IP cores However SOC designers still compare and select processor cores the way they previously compared and selected packaged microprocessor ICs The big problem with this selection method is that it assumes that the laws of the microprocessor universe have remained unchanged for decades This assumption is no longer valid Processor cores for SOC designs can be far more plastic than microprocessor ICs for board level system designs Shaping these cores for specific applications produces much better processor efficiency and much lower system clock rates Together Tensilica's Xtensa and Diamond processor cores constitute a family of software compatible microprocessors covering an extremely wide performance range from simple control processors to DSPs to 3 way superscalar processors Yet all of these processors use the same software development tools so that programmers familiar with one processor in the family can easily switch to another This book emphasizes a processor centric MPSOC multiple processor SOC design style shaped by the realities of the 21st century and nanometer silicon It advocates the assignment of tasks to firmware controlled processors whenever possible to maximize SOC flexibility cut power dissipation reduce the size and number of hand built logic blocks shrink the associated verification effort and minimize the overall design risk An essential no nonsense guide to

the design of 21st century mega gate SOCs using nanometer silicon Discusses today's key issues affecting SOC design based on author's decades of personal experience in developing large digital systems as a design engineer while working at Hewlett Packard's Desktop Computer Division and at EDA workstation pioneer Cadnetix and covering such topics as an award winning technology journalist and editor in chief for EDN magazine and the Microprocessor Report Explores conventionally accepted boundaries and perceived limits of processor based system design and then explodes these artificial constraints through a fresh outlook on and discussion of the special abilities of processor cores designed specifically for SOC design Thorough exploration of the evolution of processors and processor cores used for ASIC and SOC design with a look at where the industry has come from and where it's going Easy to understand explanations of the capabilities of configurable and extensible processor cores through a detailed examination of Tensilica's configurable extensible Xtensa processor core and six pre configured Diamond cores The most comprehensive assessment available of the practical aspects of configuring and using multiple processor cores to achieve very difficult and ambitious SOC price performance and power design goals

Engineering the Complex SOC Chris Rowen, 2008-11-11 Engineering the Complex SOC The first unified hardware software guide to processor centric SOC design Processor centric approaches enable SOC designers to complete far larger projects in far less time Engineering the Complex SOC is a comprehensive example driven guide to creating designs with configurable extensible processors Drawing upon Tensilica's Xtensa architecture and TIE language Dr Chris Rowen systematically illuminates the issues opportunities and challenges of processor centric design Rowen introduces a radically new design methodology then covers its essential techniques processor configuration extension hardware software co generation multiple processor partitioning communication and more Coverage includes Why extensible processors are necessary shortcomings of current design methods Comparing extensible processors to traditional processors and hardwired logic Extensible processor architecture and mechanisms of processor extensibility Latency throughput coordination of parallel functions hardware interconnect options management of design complexity and other issues Multiple processor SOC architecture for embedded systems Task design from the viewpoints of software and hardware developers Advanced techniques implementing complex state machines task to task synchronization power optimization and more Toward a sea of processors Long term trends in SOC design and semiconductor technology For all architects hardware engineers software designers and SOC program managers involved with complex SOC design and for all managers investing in SOC designs platforms processors or expertise PRENTICE HALL Professional Technical Reference Upper Saddle River NJ 07458 www.phptr.com **The Essential Guide to Computing** E. Garrison Walters, 2001 Perfect for anyone who needs a basic understanding of how computers work this introductory guide gives friendly accessible up to date explanations of computer hardware software networks and the Internet Coverage also includes micro processors operating systems programming languages applications and e commerce **Service Availability** Miroslaw Malek, 2005-09-22 This book constitutes the

thoroughly refereed post proceedings of the Second International Service Availability Symposium ISAS 2005 held in Berlin Germany in April 2005 The 15 revised full papers presented together with a keynote talk were carefully selected for inclusion in the book The papers are organized in topical sections on data and computation availability specifying modeling and verifying service availability high availability by service oriented architectures modeling and composition and verification and availability assessment

Design of Systems on a Chip: Design and Test Ricardo Reis, Marcelo Soares Lubaszewski, Jochen A.G. Jess, 2007-05-06 This book is the second of two volumes addressing the design challenges associated with new generations of semiconductor technology The various chapters are compiled from tutorials presented at workshops in recent years by prominent authors from all over the world Technology productivity and quality are the main aspects under consideration to establish the major requirements for the design and test of upcoming systems on a chip

Proceedings, 2005 Basics of Circuit Design cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com

Integrated Optical Interconnect Architectures for Embedded Systems Ian O'Connor, Gabriela Nicolescu, 2012-11-07 This book provides a broad overview of current research in optical interconnect technologies and architectures Introductory chapters on high performance computing and the associated issues in conventional interconnect architectures and on the fundamental building blocks for integrated optical interconnect provide the foundations for the bulk of the book which brings together leading experts in the field of optical interconnect architectures for data communication Particular emphasis is given to the ways in which the photonic components are assembled into architectures to address the needs of data intensive on chip communication and to the performance evaluation of such architectures for specific applications

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