

Rainer Leupers  
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# Processor and System-on-Chip Simulation

# Processor And System On Chip Simulation

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## **Processor And System On Chip Simulation:**

*Processor and System-on-Chip Simulation* Rainer Leupers, Olivier Temam, 2010-09-15 Simulation of computer architectures has made rapid progress recently The primary application areas are hardware software performance estimation and optimization as well as functional and timing verification Recent innovative technologies such as retargetable simulator generation dynamic binary translation or sampling simulation have enabled widespread use of processor and system on chip SoC simulation tools in the semiconductor and embedded system industries Simultaneously processor and SoC simulation is still a very active research area e g what amounts to higher simulation speed flexibility and accuracy speed trade offs This book presents and discusses the principle technologies and state of the art in high level hardware architecture simulation both at the processor and the system on chip level

Processor and System-on-Chip Simulation Rainer Leupers, Olivier Temam, 2010 Processor and System on Chip Simulation Edited by Rainer Leupers Olivier Temam The current trend from monolithic processors to multicore and multiprocessor systems on chips MPSoC with tens of cores and gigascale integration makes hardware architecture and software design more and more complex and costly Therefore simulation technology has become an extremely important pre silicon verification and optimization vehicle Simulation of computer architectures has made rapid progress recently The primary application areas are hardware software performance estimation and optimization as well as functional and timing verification Recent innovative technologies such as retargetable simulator generation dynamic binary translation and sampling simulation have enabled widespread use of processor and system on chip SoC simulation tools in the semiconductor and embedded system industries This book presents and discusses the principle technologies and state of the art in high level architecture software simulation both at the processor and the system on chip level Presents state of the art and future trends in processor and SoC simulation Demonstrates how simulation helps to boost hardware and software design productivity Addresses simulation requirements and technologies in the multicore context Covers system aspects such as virtual platforms bus simulation caches power and design space exploration

*Multi-Processor System-on-Chip 2*, 2021-03-31 A Multi Processor System on Chip MPSoC is the key component for complex applications These applications put huge pressure on memory communication devices and computing units This book presented in two volumes Architectures and Applications therefore celebrates the 20th anniversary of MPSoC an interdisciplinary forum that focuses on multi core and multi processor hardware and software systems It is this interdisciplinarity which has led to MPSoC bringing together experts in these fields from around the world over the last two decades Multi Processor System on Chip 2 covers application specific MPSoC design including compilers and architecture exploration This second volume describes optimization methods tools to optimize and port specific applications on MPSoC architectures Details on compilation power consumption and wireless communication are also presented as well as examples of modeling frameworks and CAD tools Explanations of specific platforms for automotive and real time computing are also

included **Retargetable Processor System Integration into Multi-Processor System-on-Chip Platforms** Andreas Wieferink, Heinrich Meyr, Rainer Leupers, 2008-07-08 This book presents a methodology and the associated tooling for enabling design space exploration as well as a successive refinement flow for the design of optimized MP SoCs with a high degree of automation

**Embedded Software Design and Programming of Multiprocessor System-on-Chip** Katalin Popovici, Frédéric Rousseau, Ahmed A. Jerraya, Marilyn Wolf, 2010-03-03 Current multimedia and telecom applications require complex heterogeneous multiprocessor system on chip MPSoC architectures with specific communication infrastructure in order to achieve the required performance Heterogeneous MPSoC includes different types of processing units DSP microcontroller ASIP and different communication schemes fast links non standard memory organization and access Programming an MPSoC requires the generation of efficient software running on MPSoC from a high level environment by using the characteristics of the architecture This task is known to be tedious and error prone because it requires a combination of high level programming environments with low level software design This book gives an overview of concepts related to embedded software design for MPSoC It details a full software design approach allowing systematic high level mapping of software applications on heterogeneous MPSoC This approach is based on gradual refinement of hardware software interfaces and simulation models allowing to validate the software at different abstraction levels This book combines Simulink for high level programming and SystemC for the low level software development This approach is illustrated with multiple examples of application software and MPSoC architectures that can be used for deep understanding of software design for MPSoC

**Integrated System-Level Modeling of Network-on-Chip enabled Multi-Processor Platforms** Tim Kogel, Rainer Leupers, Heinrich Meyr, 2006-08-25 We are presently observing a paradigm change in designing complex SoC as it occurs roughly every twelve years due to the exponentially increasing number of transistors on a chip This design discontinuity as all previous ones is characterized by a move to a higher level of abstraction This is required to cope with the rapidly increasing design costs While the present paradigm change shares the move to a higher level of abstraction with all previous ones there exists also a key difference For the first time shrinking geometries do not lead to a corresponding increase of performance In a recent talk Lisa Su of IBM pointed out that in 65nm technology only about 25% of performance increase can be attributed to scaling geometries while the lion share is due to innovative processor architecture 1 We believe that this fact will revolutionize the entire semiconductor industry What is the reason for the end of the traditional view of Moore's law It is instructive to look at the major drivers of the semiconductor industry wireless communications and multimedia Both areas are characterized by a rapidly increasing demand of computational power in order to process the sophisticated algorithms necessary to optimally utilize the precious resource bandwidth The computational power cannot be provided by traditional processor architectures and shared bus type of interconnects The simple reason for this fact is energy efficiency

there exist orders of magnitude between the energy efficiency of an algorithm implemented as a fixed functionality computational element and of a software implementation on a processor      Multiprocessor System-on-Chip Michael Hübner, Jürgen Becker, 2010-11-25 The purpose of this book is to evaluate strategies for future system design in multiprocessor system on chip MPSoC architectures Both hardware design and integration of new development tools will be discussed Novel trends in MPSoC design combined with reconfigurable architectures are a main topic of concern The main emphasis is on architectures design flow tool development applications and system design      **Embedded Computer Systems: Architectures, Modeling, and Simulation** Stamatis Vassiliadis, Mladen Berekovic, Timo D. Härmäläinen, 2007-08-30 Researchers and professionals in the appropriate subject areas will find this book an essential update on where research has got to in what is after all a hugely important area It constitutes the refereed proceedings of the 7th International Workshop on Systems Architectures Modeling and Simulation held in Samos Greece in July 2007 The 44 revised full papers presented together with 2 keynote talks were thoroughly reviewed and selected from 116 submissions

*System on Chip (SOC) Architecture* Veena S. Chakravarthi, Shivananda R. Koteswarar, 2023-08-14 This book deals with a practical approach to defining a system on a chip SoC architecture It is written by practicing industry experts with cumulative five decades of hands on experience The book discusses how the system level design challenges are addressed at the architecture stage and clearly defines different SoC subsystems and components The book explains the practical method of determining system subsystems in system architectures System on Chip SOC Architecture A Practical Approach provides readers with a complete understanding of methods for defining SoC architecture      **A System-level Platform-based Multi-core System-on-chip Simulation Framework with Retargetable Processing Element Models** Jinwen Xi, 2007

Computer Systems: Architectures, Modeling, and Simulation Andy Pimentel, Stamatis Vassiliadis, 2004-07-05 This book constitutes the refereed proceedings of the 4th International Workshop on Systems Architectures Modeling and Simulation SAMOS 2004 held in Samos Greece on July 2004 Besides the SAMOS 2004 proceedings the book also presents 19 revised papers from the predecessor workshop SAMOS 2003 The 55 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on reconfigurable computing architectures and implementation and systems modeling and simulation      Embedded Computer Systems: Architectures, Modeling, and Simulation Timo D. Härmäläinen, 2005-07-04 This book constitutes the refereed proceedings of the 5th International Workshop on Systems Architectures Modeling and Simulation SAMOS 2005 held in Samos Greece in July 2005 The 49 revised full papers presented were thoroughly reviewed and selected from 114 submissions The papers are organized in topical sections on reconfigurable system design and implementations processor architectures design and simulation architectures and implementations system level design and modeling and simulation      *Architecture of Computing Systems - ARCS 2010* Christian Müller-Schloer, Wolfgang Karl, Sami Yehia, 2010-04-07 Annotation This book constitutes the refereed

proceedings of the 23rd International Conference on Architecture of Computing Systems ARCS 2010 held in Hannover Germany in February 2010 The 20 revised full papers presented together with 1 keynote lecture were carefully reviewed and selected from 55 submissions This year's special focus is set on heterogeneous systems The papers are organized in topical sections on processor design embedded systems organic computing and self organization processor design and transactional memory energy management in distributed environments and ad hoc grids performance modeling and benchmarking as well as accelerators and GPUs

**Applied Computational Intelligence in Engineering and Information Technology** Radu-Emil Precup, Szilveszter Kovács, Stefan Preitl, Emil M. Petriu, 2012-03-22 This book highlights the potential of getting benefits from various applications of computational intelligence techniques The present book is structured such that to include a set of selected and extended papers from the 6th IEEE International Symposium on Applied Computational Intelligence and Informatics SACI 2011 held in Timisoara Romania from 19 to 21 May 2011 After a serious paper review performed by the Technical Program Committee only 116 submissions were accepted leading to a paper acceptance ratio of 65 % A further refinement was made after the symposium based also on the assessment of the presentation quality Concluding this book includes the extended and revised versions of the very best papers of SACI 2011 and few invited papers authored by prominent specialists The readers will benefit from gaining knowledge of the computational intelligence and on what problems can be solved in several areas they will learn what kind of approaches is advised to use in order to solve these problems A very important benefit for the readers is an understanding of what the major difficulties are and the cost effective solutions to deal with them This book will offer a convenient entry for researchers and engineers who intend to work in the important fields of computational intelligence

Multiprocessor Systems-on-Chips Ahmed Jerraya, Wayne Wolf, 2005 Modern system on chip SoC design shows a clear trend toward integration of multiple processor cores on a single chip Designing a multiprocessor system on chip MPSOC requires an understanding of the various design styles and techniques used in the multiprocessor Understanding the application area of the MPSOC is also critical to making proper tradeoffs and design decisions Multiprocessor Systems on Chips covers both design techniques and applications for MPSOCs Design topics include multiprocessor architectures processors operating systems compilers methodologies and synthesis algorithms and application areas covered include telecommunications and multimedia The majority of the chapters were collected from presentations made at the International Workshop on Application Specific Multi Processor SoC held over the past two years The workshop assembled internationally recognized speakers on the range of topics relevant to MPSOCs After having refined their material at the workshop the speakers are now writing chapters and the editors are fashioning them into a unified book by making connections between chapters and developing common terminology Examines several different architectures and the constraints imposed on them Discusses scheduling real time operating systems and compilers Analyzes design trade off and decisions in telecommunications and multimedia applications

**Computer Engineering and Technology** Weixia Xu, Liquean Xiao, Pingjing Lu, Jinwen Li, Chengyi Zhang, 2013-01-03 This book constitutes the refereed proceedings of the 16th National Conference on Computer Engineering and Technology NCCET 2012 held in Shanghai China in August 2012 The 27 papers presented were carefully reviewed and selected from 108 submissions They are organized in topical sections named microprocessor and implementation design of integration circuit I O interconnect and measurement verification and others *Simulation and Modeling Methodologies, Technologies and Applications* Mohammad S. Obaidat, Janusz Kacprzyk, Tuncer Ören, Joaquim Filipe, 2016-05-27 The present book includes a set of selected extended papers from the 5th International Conference on Simulation and Modeling Methodologies Technologies and Applications SIMULTECH 2015 held in Colmar France from 21 to 23 July 2015 The conference brought together researchers engineers and practitioners interested in methodologies and applications of modeling and simulation New and innovative solutions are reported in this book SIMULTECH 2015 received 102 submissions from 36 countries in all continents After a double blind paper review performed by the Program Committee 19% were accepted as full papers and thus selected for oral presentation Additional papers were accepted as short papers and posters A further selection was made after the Conference based also on the assessment of presentation quality and audience interest so that this book includes the extended and revised versions of the very best papers of SIMULTECH 2015 Commitment to high quality standards is a major concern of SIMULTECH that will be maintained in the next editions considering not only the stringent paper acceptance ratios but also the quality of the program committee keynote lectures participation level and logistics **Embedded Computer Systems: Architectures, Modeling, and Simulation** Koen Bertels, Nikitas Dimopoulos, Cristina Silvano, Stephan Wong, 2009-07-21 This book constitutes the refereed proceedings of the 9th International Workshop on Architectures Modeling and Simulation SAMOS 2009 held on Samos Greece on July 20 23 2009 The 18 regular papers presented were carefully reviewed and selected from 52 submissions The papers are organized in topical sections on architectures for multimedia multi many cores architectures VLSI architectures design architecture modeling and exploration tools In addition there are 14 papers from three special sessions which were organized on topics of current interest instruction set customization reconfigurable computing and processor architectures and mastering cell BE and GPU execution platforms *Multi-objective Design Space Exploration of Multiprocessor SoC Architectures* Cristina Silvano, William Fornaciari, Eugenio Villar, 2011-08-23 This book serves as a reference for researchers and designers in Embedded Systems who need to explore design alternatives It provides a design space exploration methodology for the analysis of system characteristics and the selection of the most appropriate architectural solution to satisfy requirements in terms of performance power consumption number of required resources etc Coverage focuses on the design of complex multimedia applications where the choice of the optimal design alternative in terms of application architecture pair is too complex to be pursued through a full search comparison especially because of the multi objective nature of the designer s goal the

simulation time required and the number of parameters of the multi core architecture to be optimized concurrently

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



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