

System Level Hardware/ Software Co-design

An Industrial Approach

Joris van den Hurk and Jochen Jess

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System Level Hardware Software Co Design An Industrial Approach

**Iaakov Exman, Ricardo Pérez-
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System Level Hardware Software Co Design An Industrial Approach:

System Level Hardware/Software Co-Design Joris van den Hurk, Jochen A.G. Jess, 1997-12-31 Hierarchical design methods were originally introduced for the design of digital ICs and they appeared to provide for significant advances in design productivity Time to Market and first time right design These concepts have gained increasing importance in the semiconductor industry in recent years In the course of time the supportive quality of hierarchical methods and their advantages were confirmed System Level Hardware Software Co design An Industrial Approach demonstrates the applicability of hierarchical methods to hardware software codesign and mixed analogue digital design following a similar approach Hierarchical design methods provide for high levels of design support both in a qualitative and a quantitative sense In the qualitative sense the presented methods support all phases in the product life cycle of electronic products ranging from requirements analysis to application support Hierarchical methods furthermore allow for efficient digital hardware design hardware software codesign and mixed analogue digital design on the basis of commercially available formalisms and design tools In the quantitative sense hierarchical methods have prompted a substantial increase in design productivity System Level Hardware Software Co design An Industrial Approach reports on a six year study during which time the number of square millimeters of normalized complexity an individual designer contributed every week rose by more than a factor of five Hierarchical methods therefore enabled designers to keep track of the ever increasing design complexity while effectively reducing the number of design iterations in the form of redesigns System Level Hardware Software Co design An Industrial Approach is the first book to provide a comprehensive coherent system design methodology that has been proven to increase productivity in industrial practice The book will be of interest to all managers designers and researchers working in the semiconductor industry

System Level Hardware/Software Co-Design Joris van den Hurk, Jochen A.G. Jess, 2013-04-17 Hierarchical design methods were originally introduced for the design of digital ICs and they appeared to provide for significant advances in design productivity Time to Market and first time right design These concepts have gained increasing importance in the semiconductor industry in recent years In the course of time the supportive quality of hierarchical methods and their advantages were confirmed System Level Hardware Software Co design An Industrial Approach demonstrates the applicability of hierarchical methods to hardware software codesign and mixed analogue digital design following a similar approach Hierarchical design methods provide for high levels of design support both in a qualitative and a quantitative sense In the qualitative sense the presented methods support all phases in the product life cycle of electronic products ranging from requirements analysis to application support Hierarchical methods furthermore allow for efficient digital hardware design hardware software codesign and mixed analogue digital design on the basis of commercially available formalisms and design tools In the quantitative sense hierarchical methods have prompted a substantial increase in design productivity System Level Hardware Software Co design An Industrial Approach reports on a

six year study during which time the number of square millimeters of normalized complexity an individual designer contributed every week rose by more than a factor of five Hierarchical methods therefore enabled designers to keep track of the ever increasing design complexity while effectively reducing the number of design iterations in the form of redesigns

System Level Hardware Software Co design An Industrial Approach is the first book to provide a comprehensive coherent system design methodology that has been proven to increase productivity in industrial practice The book will be of interest to all managers designers and researchers working in the semiconductor industry *Readings in Hardware/Software*

Co-Design Giovanni De Micheli,Rolf Ernst,Wayne Wolf,2002 This title serves as an introduction and reference for the field with the papers that have shaped the hardware software co design since its inception in the early 90s Enhancing Operational Efficiency and Predictive Maintenance Through Digital Innovation Minakshi,Kumar, Tarun,Bhatia, Madhulika,Wadhwa, Bhawna,Jain, Ranjana,2025-09-18 In today's industrial landscape enhancing operational efficiency and implementing predictive maintenance strategies have become critical goals for organizations seeking sustainable growth and competitiveness Digital innovation has the potential to optimize workflows reduce downtime and predict equipment failures By utilizing real time data and intelligent systems companies can move from reactive to proactive maintenance models streamline operations and cut costs Further research into this shift may boost productivity while driving long term value creation across industries

Enhancing Operational Efficiency and Predictive Maintenance Through Digital Innovation explores the synergistic impact of cutting edge technologies on our lives It delves into the interconnected world of devices the immense data they generate and the immense potential of advanced analytics and machine learning algorithms to derive valuable insights This book covers topics such as smart technology disease detection and environmental monitoring and is a useful resource for business owners engineers educators academicians researchers and scientists **Hardware/Software Co-Design** Giovanni DeMicheli,M.G. Sami,2013-11-11 Concurrent design or co design of hardware and software is extremely important for meeting design goals such as high performance that are the key to commercial competitiveness Hardware Software Co Design covers many aspects of the subject including methods and examples for designing 1 general purpose and embedded computing systems based on instruction set processors 2 telecommunication systems using general purpose digital signal processors as well as application specific instruction set processors 3 embedded control systems and applications to automotive electronics The book also surveys the areas of emulation and prototyping systems with field programmable gate array technologies hardware software synthesis and verification and industrial design trends Most contributions emphasize the design methodology the requirements and state of the art of computer aided co design tools together with current design examples **Cyber Physical Systems. Design, Modeling, and Evaluation** Christian Berger,Mohammad Reza Mousavi,Rafael Wisniewski,2017-01-11 This book constitutes the proceedings of the 6th International Workshop on Design Modeling and Evaluation of Cyber Physical Systems CyPhy2016 held in conjunction with

ESWeek 2016 in Pittsburgh PA USA in October 2016 The 9 papers presented in this volume were carefully reviewed and selected from 14 submissions They broadly interpret from a diverse set of disciplines the modeling simulation and evaluation of cyber physical systems with a particular focus on techniques and components to enable and support virtual prototyping and testing

Hardware/Software Co-Design and Co-Verification Jean-Michel Bergé, Oz Levia, Jacques Rouillard, 2013-03-09

Co Design is the set of emerging techniques which allows for the simultaneous design of Hardware and Software In many cases where the application is very demanding in terms of various performances time surface power consumption trade offs between dedicated hardware and dedicated software are becoming increasingly difficult to decide upon in the early stages of a design Verification techniques such as simulation or proof techniques that have proven necessary in the hardware design must be dramatically adapted to the simultaneous verification of Software and Hardware Describing the latest tools available for both Co Design and Co Verification of systems Hardware Software Co Design and Co Verification offers a complete look at this evolving set of procedures for CAD environments The book considers all trade offs that have to be made when co designing a system Several models are presented for determining the optimum solution to any co design problem including partitioning architecture synthesis and code generation When deciding on trade offs one of the main factors to be considered is the flow of communication especially to and from the outside world This involves the modeling of communication protocols An approach to the synthesis of interface circuits in the context of co design is presented Other chapters present a co design oriented flexible component data base and retrieval methods a case study of an ethernet bridge designed using LOTOS and co design methodologies and finally a programmable user interface based on monitors Hardware Software Co Design and Co Verification will help designers and researchers to understand these latest techniques in system design and as such will be of interest to all involved in embedded system design

Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics Tarek Sobh, Khaled Elleithy, Ausif Mahmood, Mohammad A. Karim, 2008-08-15

Novel Algorithms and Techniques in Telecommunications Automation and Industrial Electronics includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking Novel Algorithms and Techniques in Telecommunications Automation and Industrial Electronics includes selected papers from the conference proceedings of the International Conference on Industrial Electronics Technology and Automation IETA 2007 and International Conference on Telecommunications and Networking TeNe 07 which were part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2007

SynDEVs Co-Design Flow H. Gregor Molter, 2012-10-21

The complexity of modern embedded systems has increased rapidly in the recent past Introducing models of computation into the design flow has significantly raised the abstraction in system level design of embedded systems Establishing such high abstraction levels in common hardware software co design flows is still in its infancy H Gregor Molter develops a

hardware software co design flow based on the Discrete Event System Specification model of computation He advocates that such a system level design flow should exploit a timed model of computation to allow a broad application field The presented design flow will transform timed DEVS models to both synthesizable VHDL source code and embeddable C source code

The Industrial Information Technology Handbook Richard Zurawski,2018-10-03 The Industrial Information Technology Handbook focuses on existing and emerging industrial applications of IT and on evolving trends that are driven by the needs of companies and by industry led consortia and organizations Emphasizing fast growing areas that have major impacts on industrial automation and enterprise integration the Handbook covers topics such as industrial communication technology sensors and embedded systems The book is organized into two parts Part 1 presents material covering new and quickly evolving aspects of IT Part 2 introduces cutting edge areas of industrial IT The Handbook presents material in the form of tutorials surveys and technology overviews combining fundamentals and advanced issues with articles grouped into sections for a cohesive and comprehensive presentation The text contains 112 contributed reports by industry experts from government companies at the forefront of development and some of the most renowned academic and research institutions worldwide Several of the reports on recent developments actual deployments and trends cover subject matter presented to the public for the first time

Quantum Software Iaakov Exman,Ricardo Pérez-Castillo,Mario Piattini,Michael Felderer,2024-08-22 This open access book explains the state of the art in quantum software engineering and design independent from a specific hardware It deals with quantum software theoretical aspects and with classical software engineering concepts like agile development approaches validation measurement and deployment applied in a quantum or hybrid environment and is complemented by a number of various industry applications After an introductory chapter overviewing the contents of the subsequent chapters the book is composed of three parts It starts with a theoretical part on quantum software as a bold declaration that quantum software theory is deep and valuable independent from the existence of specific quantum hardware It is based upon the claim that quantum software is the more general theory subsuming classical and hybrid software system theories The second more extensive part deals with quantum software system and engineering design Its quality follows from the comparison of the broad diversity of sometimes conflicting views Moreover the variety of approaches to design enable the reader to make a well pondered rational choice of preference The book concludes with a third part referring to multiple software applications and corresponding laboratory experiences in order to understand their implications in practice and avoid repeating past mistakes This book is of interest to industry professionals and researchers in academia which are either producing or applying quantum software systems in their work or are considering their potential utility in the future Furthermore it also could be beneficial for practitioners already experienced with classical software engineering who desire to understand the fundamentals or possible applications of quantum software

Real-Time Simulation Technologies: Principles, Methodologies, and Applications Katalin Popovici,Pieter J.

Mosterman, 2017-12-19 **Real Time Simulation Technologies Principles Methodologies and Applications** is an edited compilation of work that explores fundamental concepts and basic techniques of real time simulation for complex and diverse systems across a broad spectrum Useful for both new entrants and experienced experts in the field this book integrates coverage of detailed theory acclaimed methodological approaches entrenched technologies and high value applications of real time simulation all from the unique perspectives of renowned international contributors Because it offers an accurate and otherwise unattainable assessment of how a system will behave over a particular time frame real time simulation is increasingly critical to the optimization of dynamic processes and adaptive systems in a variety of enterprises These range in scope from the maintenance of the national power grid to space exploration to the development of virtual reality programs and cyber physical systems This book outlines how for these and other undertakings engineers must assimilate real time data with computational tools for rapid decision making under uncertainty Clarifying the central concepts behind real time simulation tools and techniques this one of a kind resource Discusses the state of the art important challenges and high impact developments in simulation technologies Provides a basis for the study of real time simulation as a fundamental and foundational technology Helps readers develop and refine principles that are applicable across a wide variety of application domains As science moves toward more advanced technologies unconventional design approaches and unproven regions of the design space simulation tools are increasingly critical to successful design and operation of technical systems in a growing number of application domains This must have resource presents detailed coverage of real time simulation for system design parallel and distributed simulations industry tools and a large set of applications **Encyclopedia of Computer Science and Technology** Allen Kent, James G. Williams, 1997-07-09 Artificial Intelligence and Object Oriented Technologies to Searching An Algorithmic Tour Hardware/Software Co-Design Jørgen Staunstrup, Wayne Wolf, 2013-04-17 Introduction to Hardware Software Co Design presents a number of issues of fundamental importance for the design of integrated hardware software products such as embedded communication and multimedia systems This book is a comprehensive introduction to the fundamentals of hardware software co design Co design is still a new field but one which has substantially matured over the past few years This book written by leading international experts covers all the major topics including fundamental issues in co design hardware software co synthesis algorithms prototyping and emulation target architectures compiler techniques specification and verification system level specification Special chapters describe in detail several leading edge co design systems including Cosyma LYCOS and Cosmos Introduction to Hardware Software Co Design contains sufficient material for use by teachers and students in an advanced course of hardware software co design It also contains extensive explanation of the fundamental concepts of the subject and the necessary background to bring practitioners up to date on this increasingly important topic **VHDL User's Forum in Europe** Eugenio Villar Bonet, 1997 Compendio de los trabajos presentados en Toledo durante el VHDL user s forum in Europe **Silicon Systems For**

Wireless Lan Zoran Stamenkovic, Gildas Leger, Alberto Bosio, 2020-11-27 Today's integrated silicon circuits and systems for wireless communications are of a huge complexity. This unique compendium covers all the steps from the system level to the transistor level necessary to design, model, verify, implement and test a silicon system. It bridges the gap between the system world and the transistor world between communication system, circuit, device and test engineers. It is extremely important nowadays and will be more important in the future for communication system and circuit engineers to understand the physical implications of system and circuit solutions based on hardware/software co-design as well as for device and test engineers to cope with the system and circuit requirements in terms of power, speed and data throughput. Related Links

Distributed and Parallel Embedded Systems Franz J. Rammig, 2013-03-09 Embedded systems are becoming one of the major driving forces in computer science. Furthermore, it is the impact of embedded information technology that dictates the pace in most engineering domains. Nearly all technical products above a certain level of complexity are not only controlled but increasingly even dominated by their embedded computer systems. Traditionally, such embedded control systems have been implemented in a monolithic, centralized way. Recently, distributed solutions are gaining increasing importance. In this approach, the control task is carried out by a number of controllers distributed over the entire system and connected by some interconnect network like fieldbuses. Such a distributed embedded system may consist of a few controllers up to several hundred as in today's top-range automobiles. Distribution and parallelism in embedded systems design increase the engineering challenges and require new development methods and tools. This book is the result of the International Workshop on Distributed and Parallel Embedded Systems DIPES 98 organized by the International Federation for Information Processing (IFIP) Working Groups 10.3 Concurrent Systems and 10.5 Design and Engineering of Electronic Systems. The workshop took place in October 1998 in Schloss Eringerfeld near Paderborn, Germany, and the resulting book reflects the most recent points of view of experts from Brazil, Finland, France, Germany, Italy, Portugal, and the USA. The book is organized in six chapters: Formalisms for Embedded System Design, IP-based system design and various approaches to multi-language formalisms, Synthesis from Synchronous/Asynchronous Specification, Synthesis techniques based on Message Sequence Charts, MSC, StateCharts, and Predicate Transition Nets, Partitioning and Load Balancing, Application in simulation models and target systems, Verification and Validation, Formal techniques for precise verification and more pragmatic approaches to validation, Design Environments for distributed embedded systems and their impact on the industrial state of the art, Object-Oriented Approaches, Impact of OO techniques on distributed embedded systems. LIST This volume will be essential reading for computer science researchers and application developers. *A Platform-Centric Approach to System-on-Chip (SOC) Design* Vijay Madisetti, Chonlameth Arpnikanondt, 2006-06-28 Increasing system complexity has created a pressing need for better design tools and associated methodologies and languages for meeting the stringent time-to-market and cost constraints. Platform-centric and platform-based system-on-chip SoC design methodologies based on reuse of

software and hardware functionality has also gained increasing exposure and usage within the Electronic System Level ESL design communities The book proposes a new methodology for realizing platform centric design of complex systems and presents a detailed plan for its implementation The proposed plan allows component vendors system integrators and product developers to collaborate effectively and efficiently to create complex products within budget and schedule constraints This book focuses more on the use of platforms in the design of products and not on the design of platforms themselves Platform centric design is not for everyone as some may feel that it does not allow them to differentiate their offering from competitors to a significant degree However its proponents may claim that the time market and cost advantages of platform centric design more than compensate for any drawbacks

Embedded Systems: Design, Analysis and Verification Gunar Schirner, Marcelo Götz, Achim Rettberg, Mauro C. Zanella, Franz J. Rammig, 2013-06-13 This book constitutes the refereed proceedings of the 4th IFIP TC 10 International Embedded Systems Symposium IESS 2013 held in Paderborn Germany in June 2013 The 22 full revised papers presented together with 8 short papers were carefully reviewed and selected from 42 submissions The papers have been organized in the following topical sections design methodologies non functional aspects of embedded systems verification performance analysis real time systems embedded system applications and real time aspects in distributed systems The book also includes a special chapter dedicated to the BMBF funded ARAMIS project on Automotive Railway and Avionics Multicore Systems

Product-Focused Software Process Improvement Jürgen Münch, 2006-06-09 This book constitutes the refereed proceedings of the 7th International Conference on Product Focused Software Process Improvement PROFES 2006 held in Amsterdam June 2006 The volume presents 26 revised full papers and 12 revised short papers together with 6 reports on workshops and tutorials The papers constitute a balanced mix of academic and industrial aspects organized in topical sections on decision support embedded software and system development measurement process improvement and more

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