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23k Accesses 105 Citations Page 2 In this chapter we will look at the emergence of system design theory, practice and tools. We will first look into the needs of system-level design and the driving force behind its emergence: increase in design complexity and widening of productivity gap. In order to find an answer to these challenges and find a systematic approach for system design, we must first define design-abstraction levels; this will allow us to talk about design-flow needs on processor and systems levels of abstraction. An efficient design-flow will employ clear and clean semantics in its languages and modeling, which is also, required by synthesis and verification tools. We will then analyze the system-level design flow and define necessary models, define each model separately and its use in the system design flow. We will also discuss the components and tools necessary for system design. We will finish with prediction on future directions in system design and the prospects for system design practice and tools. Keywords Clock Cycle Finite State Machine Abstraction Level Register File Custom Processor These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves. This is a preview of subscription content, access via your institution. Unable to display preview. Download preview PDF. Daniel D. Gajski received the Dipl. Ing. and M.S. degrees in Electrical Engineering from the University of Zagreb, Croatia, and the Ph.D. degree in Computer and Information Sciences from the University of Pennsylvania, Philadelphia. After 10 years of industrial experience in Europe and the United States in digital circuits, telecommunication systems, supercomputer design, and VLSI structures, he spent 10 years in academia with the Department of Computer Science at the University of Illinois at Urbana-Champaign. Presently, he is a Professor in the School of Information and Computer Science and the School of Engineering at the University of California, Irvine. His research interests are in embedded systems and information technology, design methodologies, specification languages and CAD software, and the science of design. He is editor of the book, Silicon Compilation (Addison-Wesley, 1988), a co-author of the books, High Level Synthesis: An Introduction to Chip and System Design (Kluwer-Academic, 1992) and Specification and Design of Embedded Systems (Prentice Hall, 1994), and the author of Principles of Digital Design (Prentice Hall, 1995). Philosophy Research in Embedded Systems Design (ESD) addresses the various aspects of bridging the gap between the demands of new applications and available technology. The ESD concentration is designed to produce computer scientists with an increased awareness of the demands imposed on computers by the application domains which have traditionally been viewed as extrinsic to computer science. This application sensitivity will give students a unique advantage in the increasingly important area of integrated software/hardware computer and application systems and will prepare them to meet the challenges of real-world problems. The ESD research paradigm prepares our students to conceptualize a system design, prototype it and take it all the way to an efficient system implementation with the right balance of hardware and software components. Achievements I am working on many aspects of Design Science studying design process from specification to manufacturing to business models. My students and I have developed new methodologies for design process, and techniques for specification modeling of embeded computer systems. I am also working on specification languages and algorithms for design partitioning, estimation, synthesis and verification of software and hardware. My research group has developed a methodology and tools which improve design process and productivity by 2 orders of magnitude. Presently we are developing a new methodology for specification and design of embedded systems. We have recently published a book Embedded System Design that describes the basic principles and techniques of embedded design methodology. Research Interests I am particularly interested in requirements and specifications of embedded systems and the design process that leads from an executable specification to the final manufacturable blueprint. In order to study the design process, my group is developing new specification languages and modeling guidelines, as well as simulation, synthesis, and verification tools. In order to obtain efficient specifications and design models we are taxonomizing models of computations, platform architectures and design styles. In order to develop efficient CAD tools we are studying synthesis algorithms for systems, architectures, processors, controllers, datapaths, and other intellectual properties (IPs). Our further goal is to build proof-of-concept tools and prove our methodology for different application domains and tools on extensive industrial strength examples. Showing 1-28 Start your review of Embedded System Design: Modeling, Synthesis And Verification Saransh rated it it was amazing Nov 27, 2016 Bilal rated it it was amazing Nov 28, 2012 Dhara rated it really liked it Jan 14, 2013 J Ravi rated it really liked it Aug 05, 2019 Subhajt Das rated it really liked it Dec 02, 2019 Benjamin rated it it was ok Jul 27, 2017 Mahmoud marked it as to-read May 10, 2013 Nanu marked it as to-read Oct 02, 2013 Dwarkanath marked it as to-read Mar 27, 2015 Kevin Lo marked it as to-read Jan 30, 2016 John marked it as to-read Jun 22, 2017 Sp marked it as to-read Nov 30, 2017 Emad is currently reading it Aug 15, 2018 Azzaz Aki marked it as to-read May 24, 2019 Ashutosh marked it as to-read Sep 07, 2019 محمد مصعب marked it as to-read Oct 12, 2019 Embedd System Design: Modeling, Synthesis and Verification introduces a model-based approach to system level design. It presents modeling techniques for both computation and communication at different levels of abstraction, such as specification, transaction level and cycle-accurate level. It discusses synthesis methods for system level architectures, embedded software and hardware components. Using these methods, designers can develop applications with high level models, which are automatically translatable to low level implementations. This book, furthermore, describes simulation-based and formal verification methods that are essential for achieving design confidence. The book concludes with an overview of existing tools along with a design case study outlining the practice of embedded system design. Specifically, this book addresses the following topics in detail: System modeling at different abstraction levels. Model-based system design. Hardware/Software codesign. Software and Hardware component synthesis. System verification This book is for groups within the embedded system community: students in courses on embedded systems, embedded application developers, system designers and managers, CAD tool developers, design automation, and system engineering. Embedded System Design: Modeling, Synthesis and Verification introduces a model-based approach to system level design. It presents modeling techniques for both computation and communication at different levels of abstraction, such as specification, transaction level and cycle-accurate level. It discusses synthesis methods for system level architectures, embedded software and hardware components. Using these methods, designers can develop applications with high level models, which are automatically translatable to low level implementations. This book, furthermore, describes simulation-based and formal verification methods that are essential for achieving design confidence. The book concludes with an overview of existing tools along with a design case study outlining the practice of embedded system design. Specifically, this book addresses the following topics in detail: System modeling at different abstraction levels. Model-based system design. Hardware/Software codesign. Software and Hardware component synthesis. System verification This book is for groups within the embedded system community: students in courses on embedded systems, embedded application developers, system designers and managers, CAD tool developers, design automation, and system engineering. This is the first book on embedded systems to offer a unified approach to hardware and software specification and design issues - and the first to outline a new specify-explore-refine paradigm that is presently being used in industry in an ad-hoc manner, but until now has not been formally described. The book addresses the system design methodology from conceptualization to manufacturing using this new paradigm, and shows how this methodology can result in 10x improvement in productivity. Addresses two of the most significant topics in the design of digital systems -- executable system specification and a methodology for system partitioning and refinement into system-level components. Covers models and architectures; specification languages; a specification example; translation to VHDL; system partitioning; design quality estimation; specification refinement into synthesizable models; and system-design methodology and environment. Contains a complete specification of a model product (telephone answering machine), and demonstrates how to write the specification from an English description. For RISC design methodologists and VHDL methodologists; and CAD software developers.







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