



UML-B
Specification for
Proven Embedded
Systems Design

Edited by
Jean P. Mermet

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Umlb Specification For Proven Embedded Systems Design

Christoph Grimm



Umlb Specification For Proven Embedded Systems Design:

UML-B Specification for Proven Embedded Systems Design Jean Mermet,2013-03-19 This book presents the perspective of the project on a Paradigm Unifying System Specification Environments for proven Electronic design PUS SEE as conceived in the course of the research during 2002 2003 The initial statement of the research was formulated as follows The objective of PUSSEE is to introduce the formal proof of system properties throughout a modular system design methodology that integrates sub systems co verification with system refinement and reusability of virtual system components This will be done by combining the UML and B languages to allow the verification of system specifications through the composition of proven sub systems in particular interfaces using the VSIAISLIF standard The link of B with C VHDL and SystemC will extend the correct by construction design process to lower system on chip SoC development stages Prototype tools will be developed for the code generation from UML and B and existing B verification tools will be extended to support IP reuse according to the VSI Alliance work The methodology and tools will be validated through the development of three industrial applications a wireless mobile terminal a telecom system on chip based on HIPERLANI2 protocol and an anti collision module for automobiles The problem was known to be hard and the scope ambitious But the seventeen chapters that follow describing the main results obtained demonstrate the success of the research acknowledged by the European reviewers They are released to allow the largest audience to learn and take benefit of *UML-B Specification for Proven Embedded Systems Design* Jean Mermet,2014-01-15 Embedded System Design Daniel D. Gajski,Samar Abdi,Andreas Gerstlauer,Gunar Schirner,2009-08-14 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 Embedded Systems Specification and Design Languages Eugenio Villar,2008-05-15 This book is the latest contribution to the Chip Design Languages series and it consists of selected papers presented at the Forum on Specifications and Design Languages FDL 07 in September 2007 The book represents the state of the art in research and practice and it identifies new research directions

It highlights the role of specification and modelling languages and presents practical experiences with specification and modelling languages

Advances in Design and Specification Languages for Embedded Systems Sorin Alexander Huss, 2007-07-19 Design and specification languages are of utmost interest in the area of embedded systems and the Forum on Specification and Design Languages has been once again the main European event for the embedded systems and chip design community Advances in Design and Specification Languages for Embedded Systems is the latest contribution to the Chip Design Languages series and it consists of selected papers presented at the Forum on Specifications and Design Languages FDL 06 in September 2006 FDL an ECSI conference is the premier European forum to present research results exchange experiences and learn about new trends in the application of specification and design languages as well as of associated design and modelling methods and tools for integrated circuits embedded systems and heterogeneous systems Modelling and specification concepts push the development of new methodologies for design and verification to system level they thus provide the means for a model driven design of complex information processing systems in a variety of application domains

Specification and Design Methodology for Real-Time Embedded Systems Randall S. Janka, 2002 Specification and design methodology has seen significant growth as a research area over the last decade tracking but lagging behind VLSI design technology in general and the CAD industry in particular The commercial rush to market tries to leverage existing technology which fuels CAD design tool development Paralleling this is very active basic and applied research to investigate and move forward rational and effective methodologies for accomplishing digital design especially in the field of hardware software codesign It is this close relationship between industry and academia that makes close cooperation between researchers and practitioners so important and monographs like this that combine both abstract concept and pragmatic implementation deftly bridge this often gaping chasm It was at the IEEE ACM Eighth International Symposium on Hardware Software Codesign where I met the author of this monograph Dr Randall Janka who was presenting some of his recent dissertation research results on specification and design methodology or as he has so succinctly defined this sometimes ambiguous concept the tools and rules Where so many codesign researchers are trying to prove out different aspects of codesign and using toy applications to do so Dr Janka had developed a complete specification and design methodology and prototyped the infrastructure and proven its viability utility and effectiveness using a demanding real world application of a real time synthetic aperture radar imaging processor that was implemented with embedded parallel processors

System Specification & Design Languages Eugenio Villar, Jean Mermet, 2007-05-08 In this fourth book in the CHDL Series a selection of the best papers presented in FDL 02 is published System Specification and Design Languages contains outstanding research contributions in the four areas mentioned above So The Analog and Mixed Signal system design contributions cover the new methodological approaches like AMS behavioral specification mixed signal modeling and simulation AMS reuse and MEMs design using the new modeling languages such as VHDL AMS Verilog AMS Modelica and

analog mixed signal extensions to SystemC UML is the de facto standard for SW development covering the early development stages of requirement analysis and system specification The UML based system specification and design contributions address latest results on hot topic areas such as system profiling performance analysis and UML application to complex HW SW embedded systems and SoC design C C for HW SW systems design is entering standard industrial design flows Selected papers cover system modeling system verification and SW generation The papers from the Specification Formalisms for Proven design workshop present formal methods for system modeling and design semantic integrity and formal languages such as ALPHA HANDLE and B

Embedded System Design Frank Vahid, Tony D. Givargis, 2001-10-17 This book introduces a modern approach to embedded system design presenting software design and hardware design in a unified manner It covers trends and challenges introduces the design and use of single purpose processors hardware and general purpose processors software describes memories and buses illustrates hardware software tradeoffs using a digital camera example and discusses advanced computation models controls systems chip technologies and modern design tools For courses found in EE CS and other engineering departments

UML for Real Luciano Lavagno, Grant Martin, Bran Selic, 2003-05-31 The complexity of most real time and embedded systems often exceeds that of other types of systems since in addition to the usual spectrum of problems inherent in software they need to deal with the complexities of the physical world That world as the proverbial Mr Murphy tells us is an unpredictable and often unfriendly place Consequently there is a very strong motivation to investigate and apply advanced design methods and technologies that could simplify and improve the reliability of real time software design and implementation As a result from the first versions of UML issued in the mid 1990 s designers of embedded and real time systems have taken to UML with vigour and enthusiasm However the dream of a complete model driven design flow from specification through automated optimised code generation has been difficult to realise without some key improvements in UML semantics and syntax specifically targeted to the real time systems problem With the enhancements in UML that have been proposed and are near standardisation with UML 2 0 many of these improvements have been made In the Spring of 2003 adoption of a formalised UML 2 0 specification by the members of the Object Management Group OMG seems very close It is therefore very appropriate to review the status of UML as a set of notations for embedded real time systems both the state of the art and best practices achieved up to this time with UML of previous generations and where the changes embodied in the 2

Specification and Design of Embedded Systems Daniel D. Gajski, 1994 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

From Specification to Embedded Systems Application Achim Rettberg, Mauro C. Zanella, Franz J. Rammig, 2005-08-10 IFIP TC10 Working Conference Internationall Embedded Systems Symposium IESS August 15 17 2005 Manaus Brazil

Global Specification and Validation of Embedded Systems G. Nicolescu, Ahmed A. Jerraya, 2007-07-07 Global Specification and Validation of Embedded Systems offers a deep understanding of concepts and practices behind the composition of heterogeneous components After the analysis of existing computation and execution models used for the specification and validation of different sub systems the book introduces a systematic approach to build an execution model for systems composed of heterogeneous components Mixed continuous discrete and hardware software systems will be used to illustrate these concepts The benefit of reading this book is to give a clear vision on the theory and practice of specification and validation of complex modern systems The examples give to the designers solutions applicable in their daily practice

Embedded Systems Handbook Richard Zurawski, 2018-09-03 Considered a standard industry resource the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications including those in automotive electronics industrial automated systems and building automation and control Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again Divided into two volumes to accommodate this growth the Embedded Systems Handbook Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews that explore cutting edge developments and deployments and identify potential trends This first self contained volume of the handbook Embedded Systems Design and Verification is divided into three sections It begins with a brief introduction to embedded systems design and verification It then provides a comprehensive overview of embedded processors and various aspects of system on chip and FPGA as well as solutions to design challenges The final section explores power aware embedded computing design issues specific to secure embedded systems and web services for embedded devices Those interested in taking their work with embedded systems to the network level should complete their study with the second volume Network Embedded Systems

Advanced Techniques for Embedded Systems Design and Test Juan C. López, Román Hermida, Walter Geisselhardt, 1998-02-28 As electronic technology reaches the point where complex systems can be integrated on a single

chip and higher degrees of performance can be achieved at lower costs designers must devise new ways to undertake the laborious task of coping with the numerous and non trivial problems that arise during the conception of such systems On the other hand shorter design cycles so that electronic products can fit into shrinking market windows put companies and consequently designers under pressure in a race to obtain reliable products in the minimum period of time New methodologies supported by automation and abstraction have appeared which have been crucial in making it possible for system designers to take over the traditional electronic design process and embedded systems is one of the fields that these methodologies are mainly targeting The inherent complexity of these systems with hardware and software components that usually execute concurrently and the very tight cost and performance constraints make them specially suitable to introduce higher levels of abstraction and automation so as to allow the designer to better tackle the many problems that appear during their design

Advanced Techniques for Embedded Systems Design and Test is a comprehensive book presenting recent developments in methodologies and tools for the specification synthesis verification and test of embedded systems characterized by the use of high level languages as a road to productivity Each specific part of the design process from specification through to test is looked at with a constant emphasis on behavioral methodologies **Advanced Techniques for Embedded Systems Design and Test** is essential reading for all researchers in the design and test communities as well as system designers and CAD tools developers

Embedded System Design Peter Marwedel, 2006-10-04 Until the late eighties information processing was associated with large mainframe computers and huge tape drives During the nineties this trend shifted towards information processing with personal computers or PCs The trend towards miniaturization continues In the future most of the information processing systems will be quite small and embedded into larger products such as transportation and fabrication equipment Hence these kinds of systems are called embedded systems It is expected that the total market volume of embedded systems will be significantly larger than that of traditional information processing systems such as PCs and mainframes Embedded systems share a number of common characteristics For example they must be dependable efficient meet real time constraints and require customized user interfaces instead of generic keyboard and mouse interfaces Therefore it makes sense to consider common principles of embedded system design

Embedded System Design starts with an introduction into the area and a survey of specification languages for embedded systems A brief overview is provided of hardware devices used for embedded systems and also presents the essentials of software design for embedded systems Real time operating systems and real time scheduling are covered briefly Techniques for implementing embedded systems are also discussed using hardware software codesign It closes with a survey on validation techniques

Embedded System Design can be used as a text book for courses on embedded systems and as a source which provides pointers to relevant material in the area for PhD students and teachers The book assumes a basic knowledge of information processing hardware and software

Sequence-based Specification of Embedded Systems Jason Martin Carter, 2009

Software has become integral to the control mechanism of modern devices From transportation and medicine to entertainment and recreation embedded systems integrate fundamentally with time and the physical world to impact our lives therefore product dependability and safety are of paramount importance Model based design has evolved as an effective way to prototype systems and to analyze system function through simulation This process mitigates the problems and risks associated with embedding software into consumer and industrial products However the most difficult tasks remain Getting the requirements right and reducing them to precise specifications for development and providing compelling evidence that the product is fit for its intended use Sequence based specification of discrete systems using well chosen abstractions has proven very effective in exposing deficiencies in requirements and then producing precise specifications for good requirements The process ensures completeness consistency and correctness by tracing each specification decision precisely to the requirements Likewise Markov chain based testing has proven effective in providing evidence that systems are fit for field use Model based designs integrate discrete and continuous behavior models have both hybrid and switching properties In this research we extend sequence based specification to explicitly include time continuous functions nondeterminism and internal events for embedded real time systems The enumeration is transformed into an enumeration hybrid automaton that acts as the foundation for an executable model based design and an algebraic hybrid I O automaton with valuable theoretical properties Enumeration is a step wise problem solving technique that complements model based design by converting ordinary requirements into precise specifications The goal is a complete consistent and traceably correct design with a basis for automated testing

Languages for System Specification Christoph Grimm,1996-12-15 Contributions on UML address the application of UML in the specification of embedded HW SW systems C Based System Design embraces the modeling of operating systems modeling with different models of computation generation of test patterns and experiences from case studies with SystemC Analog and Mixed Signal Systems covers rules for solving general modeling problems in VHDL AMS modeling of multi nature systems synthesis and modeling of Mixed Signal Systems with SystemC Languages for formal methods are addressed by contributions on formal specification and refinement of hybrid embedded and real time stems Together with articles on new languages such as SystemVerilog and Software Engineering in Automotive Systems the contributions selected for this book embrace all aspects of languages and models for specification design modeling and verification of systems Therefore the book gives an excellent overview of the actual state of the art and the latest research results

Global Specification and Validation of Embedded Systems G. Nicolescu,Ahmed A. Jerraya,2009-09-03 This book offers up a deep understanding of concepts and practices behind the composition of heterogeneous components After the analysis of existing computation and execution models used for the specification and validation of different sub systems the book introduces a systematic approach to build an execution model for systems composed of heterogeneous components Mixed continuous discrete and hardware software systems are used to illustrate these concepts The benefit of reading this

book is to arrive at a clear vision of the theory and practice of specification and validation of complex modern systems
Numerous examples give designers highly applicable solutions

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

Languages for Embedded Systems and their Applications Martin Radetzki, 2009-05-24 Embedded systems take over complex control and data processing tasks in diverse application elds such as automotive avionics consumer products and telec munications They are the primary driver for improving overall system safety ef ciency and comfort The demand for further improvement in these aspects can only be satis ed by designing embedded systems of increasing complexity which in turn necessitates the development of new system design methodologies based on speci cation design and veri cation languages The objective of the book at hand is to provide researchers and designers with an overview of current research trends results and application experiences in c puter languages for embedded systems The book builds upon the most relevant contributions to the 2008 conference Forum on Design Languages FDL the p mior international conference specializing in this eld These contributions have been selected based on the results of reviews provided by leading experts from search and industry In many cases the authors have improved their original work by adding breadth depth or explanation

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Table of Contents Umlb Specification For Proven Embedded Systems Design

1. Understanding the eBook Umlb Specification For Proven Embedded Systems Design
 - The Rise of Digital Reading Umlb Specification For Proven Embedded Systems Design
 - Advantages of eBooks Over Traditional Books
2. Identifying Umlb Specification For Proven Embedded Systems Design
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Umlb Specification For Proven Embedded Systems Design
 - User-Friendly Interface
4. Exploring eBook Recommendations from Umlb Specification For Proven Embedded Systems Design
 - Personalized Recommendations
 - Umlb Specification For Proven Embedded Systems Design User Reviews and Ratings
 - Umlb Specification For Proven Embedded Systems Design and Bestseller Lists
5. Accessing Umlb Specification For Proven Embedded Systems Design Free and Paid eBooks
 - Umlb Specification For Proven Embedded Systems Design Public Domain eBooks
 - Umlb Specification For Proven Embedded Systems Design eBook Subscription Services
 - Umlb Specification For Proven Embedded Systems Design Budget-Friendly Options
6. Navigating Umlb Specification For Proven Embedded Systems Design eBook Formats

- ePub, PDF, MOBI, and More
 - Umlb Specification For Proven Embedded Systems Design Compatibility with Devices
 - Umlb Specification For Proven Embedded Systems Design Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Umlb Specification For Proven Embedded Systems Design
 - Highlighting and Note-Taking Umlb Specification For Proven Embedded Systems Design
 - Interactive Elements Umlb Specification For Proven Embedded Systems Design
 8. Staying Engaged with Umlb Specification For Proven Embedded Systems Design
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Umlb Specification For Proven Embedded Systems Design
 9. Balancing eBooks and Physical Books Umlb Specification For Proven Embedded Systems Design
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Umlb Specification For Proven Embedded Systems Design
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Umlb Specification For Proven Embedded Systems Design
 - Setting Reading Goals Umlb Specification For Proven Embedded Systems Design
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Umlb Specification For Proven Embedded Systems Design
 - Fact-Checking eBook Content of Umlb Specification For Proven Embedded Systems Design
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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