
SPECIFICATION AND DESIGN METHODOLOGY

FOR REAL-TIME EMBEDDED SYSTEMS

Randall S. Janka

Foreword by Daniel Gajski

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Specification And Design Methodology For Real Time Embedded Systems

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Specification and Design Methodology for Real-Time Embedded Systems Randall S. Janka, 2012-12-06

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. **IEEE Circuits & Devices**, 2004. [From Specification to Embedded Systems Application](#) Achim

Rettberg, Mauro C. Zanella, Franz J. Rammig, 2005-08-10 IFIP TC10 Working Conference International Embedded Systems Symposium IESS August 15-17 2005 Manaus Brazil. **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. [Reliable Software Technologies - Ada-Europe '99](#) Michael Gonzalez Harbour, Juan A. de la Puente, 2003-07-31. The Fourth International Conference on Reliable Software Technologies Ada Europe 99 took place in Santander Spain from June 7 to 11 1999. It was

sponsored by Ada Europe the European federation of national Ada societies in cooperation with ACM SIGAda and Ada Spain and it was organized by members of the University of Cantabria and the Technical University of Madrid in Spain This was the 19th consecutive year of Ada Europe conferences which have always been the main Ada events in Europe with their counterparts being the ACM SIGAda conferences in the USA formerly Tri Ada The conference is not just devoted to the Ada language but rather to the more general area of reliable software technologies In this sense there are papers on formal methods testing software architectures and design software engineering tools etc We believe that the role of reliable software technologies is becoming increasingly important as computer applications control more and more of our everyday systems The goal of our conference is to contribute to advancing the state of the art of all the technologies that help us in achieving better and more reliable software at a lower overall cost

Scientific and Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

UML for Real Luciano Lavagno, Grant Martin, Bran V. Selic, 2007-05-08 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

EUROMICRO 96 Peter Milligan, Krzysztof Kuchcinski, 1996 *Fourth International Workshop on Hardware/Software Co-Design, Codes/CASHE '96*

Donald E. Thomas, Rolf Ernst, 1996 Embedded architecture co synthesis and system integration B Lin S Vercauteren and H De Man A multi level transformation approach to HW SW codesign a case study T K Y Cheung G Hellestrand and P Kanthamanon Fully parallel hardware software codesign for multi dimensional DSP applications M Sheliga N L Passos and E H M Sha A co design methodology based on formal specification and high level estimation C Carreras and others Speed up estimation for HW SW systems W Hardt and W Rosenstiel A framework for interactive analysis of timing constraints in

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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

Embedded System Design: Topics, Techniques and Trends Achim Rettberg, Mauro Zanella, Rainer Domer, Andreas Gerstlauer, Franz Rammig,2007-06-01 This volume presents the technical program of the 2007 International Embedded Systems Symposium held in Irvine California It covers timely topics techniques and trends in embedded system design including design methodology networks on chip distributed and networked systems and system verification It places emphasis on automotive and medical applications and includes case studies and special aspects in embedded system design

Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD). ,1996 **Shortening the Path from Specification to Prototype** ,2004 **Software Design Methodologies** Jarir Chaar,1987 *The Proceedings of the European Design Automation Conference* ,1990 **Proceedings** ,2005 **Proceedings of the ... International Symposium on Hardware/Software Codesign** ,2002

Supercomputers Stephen Winter, Harald Schumny,1988 **Languages, Compilers, and Tools for Embedded Systems** ,1998 **IEEE International Workshop on Rapid Systems Prototyping** IEEE Computer Society. Technical Committee on Simulation,1999 Contains papers from a June 1999 workshop which brought together system designers model and tool developers integrated circuit designers and software engineers to explore problems and techniques in the area of rapid system prototyping Papers focus on models for system simulation emulation in a hierarchical sense software to hardware mapping software prototyping and validation prototyping environments of hardware simulators and experiences from specific system prototyping projects Contains sections on communication and distributed systems reconfigurable

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