

# EMBEDDED REAL-TIME SYSTEMS

*A Specification and  
Design Methodology*

• Jean Paul Calvez



WILEY SERIES IN SOFTWARE ENGINEERING PRACTICE

# Specification And Design Methodology For Real Time Embedded Systems

**Akos Frohner**



## **Specification And Design Methodology For Real Time Embedded Systems:**

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

**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 *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 **System Specification and Design Languages** Tom J. Kaźmierski, Adam Morawiec, 2011-12-02 This book brings together a selection of the best papers from the thirteenth edition of the Forum on specification and Design Languages Conference FDL which was held in Southampton UK in September 2010 FDL is a well established international forum devoted to dissemination of research results practical experiences and new ideas in the application of specification design and verification languages to the design modelling and verification of integrated circuits complex hardware software embedded systems and mixed technology systems Design of Hardware/Software Embedded Systems Eugenio Villar Bonet, 2001 Este libro presenta los desafíos planteados por las nuevas y sumamente poderosas tecnologías de integración de sistemas electrónicos que están en la base de los cambios sociales hacia lo que llaman la Sociedad de la Información en la que los dispositivos electrónicos se harán una parte incorporada de la vida

diaria encajados en casi cada producto Es necesario un conocimiento cuidadoso de los desafíos para aprovechar la amplia gama de ocasiones ofrecidas por tales capacidades de integración y las correspondientes posibilidades de diseño de sistemas electrónicos

*Specification and Verification of Concurrent Systems* Charles Rattray, 2013-11-11 This volume contains papers presented at the BCS FACS Workshop on Specification and Verification of Concurrent Systems held on 6-8 July 1988 at the University of Stirling Scotland Specification and verification techniques are playing an increasingly important role in the design and production of practical concurrent systems The wider application of these techniques serves to identify difficult problems that require new approaches to their solution and further developments in specification and verification The Workshop aimed to capture this interplay by providing a forum for the exchange of the experience of academic and industrial experts in the field Presentations included surveys original research practical experience with methods tools and environments in the following or related areas Object oriented process data and logic based models and specification methods for concurrent systems Verification of concurrent systems Tools and environments for the analysis of concurrent systems Applications of specification languages to practical concurrent system design and development We should like to thank the invited speakers and all the authors of the papers whose work contributed to making the Workshop such a success We were particularly pleased with the international response to our call for papers Invited Speakers Pierre America Philips Research Laboratories University of Warwick Professor M Joseph David Freestone British Telecom Organising Committee Charles Rattray Dr Muffy Thomas Dr Simon Jones Dr John Cooke Professor Ken Turner Derek Coleman Maurice Naftalin Dr Peter Scharbach vi Preface We would like to acknowledge the financial contribution made by SD Systems Designers pie Camberley Surrey

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

**IEEE Circuits & Devices**, 2004

**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

### **A Platform-Centric Approach to System-on-Chip (SOC) Design** Vijay

Madiseti, Chonlameth Arpikanondt, 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 have 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 System Design: Topics, Techniques and Trends* Achim Rettberg, Mauro

Zanella, Rainer Dömer, Andreas Gerstlauer, Franz Rammig, 2010-05-09 Over recent years embedded systems have gained an enormous amount of processing power and functionality. Many of the formerly external components can now be integrated into a single System on Chip. This tendency has resulted in a dramatic reduction in the size and cost of embedded systems. As a unique technology, the design of embedded systems is an essential element of many innovations. *Embedded System Design: Topics, Techniques and Trends* presents the technical program of the International Embedded Systems Symposium IESS 2007 held in Irvine, California. IESS is a unique forum to present novel ideas, exchange timely research results and discuss the state of the art and future trends in the field of embedded systems. Contributors and participants from both industry and academia take active part in this symposium. The IESS conference is organized by the Computer Systems Technology committee TC10 of the International Federation for Information Processing (IFIP). Timely topics, techniques and trends in embedded system design are covered by the chapters in this book, including design methodology, specification and modeling, embedded software and hardware synthesis, networks on chip, distributed and networked systems, and system verification and validation. Particular emphasis is paid to automotive and medical applications. A set of actual case studies and special aspects in embedded system design are included as well.

### **Parallel and Distributed Processing** Jose Rolim, 2000-04-19

This volume contains the proceedings from the workshops held in conjunction with the IEEE International Parallel and Distributed Processing Symposium (IPDPS) 2000 on 1-5 May 2000 in Cancun, Mexico. The workshops provide a forum for bringing together researchers, practitioners and designers from various backgrounds to discuss the state of the art in parallelism. They focus on different aspects of parallelism: from runtime systems to formal methods, from optics to irregular problems, from biology to networks of personal computers, from embedded systems to programming environments. The following workshops are represented in

this volume Workshop on Personal Computer Based Networks of Workstations Workshop on Advances in Parallel and Distributed Computational Models Workshop on Par and Dist Comp in Image Video and Multimedia Workshop on High Level Parallel Prog Models and Supportive Env Workshop on High Performance Data Mining Workshop on Solving Irregularly Structured Problems in Parallel Workshop on Java for Parallel and Distributed Computing Workshop on Biologically Inspired Solutions to Parallel Processing Problems Workshop on Parallel and Distributed Real Time Systems Workshop on Embedded HPC Systems and Applications Reconfigurable Architectures Workshop Workshop on Formal Methods for Parallel Programming Workshop on Optics and Computer Science Workshop on Run Time Systems for Parallel Programming Workshop on Fault Tolerant Parallel and Distributed Systems All papers published in the workshops proceedings were selected by the program committee on the basis of referee reports Each paper was reviewed by independent referees who judged the papers for originality quality and consistency with the themes of the workshops

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

**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

*FM 2008: Formal Methods* Jorge Cuellar, Tom Maibaum, 2008-06-05 This book presents the refereed proceedings of the 15th International Symposium on Formal Methods FM 2008 held in Turku Finland in May 2008 The 23 revised full papers presented together with 4 invited contributions and extended abstracts of 5 invited industrial presentations were carefully reviewed and selected from 106 submissions The papers are organized in topical sections on programming language analysis verification real time and concurrency grand challenge problems formal practice runtime monitoring and analysis communication constraint analysis and design

Embedded Software Thomas A. Henzinger, Christoph M. Kirsch, 2003-06-30 With the omnipresence of micro devices in our daily lives embedded software has gained tremendous importance in both science and industry This volume contains 34 invited papers from the First

International Workshop on Embedded Systems They present latest research results from different areas of computer science that are traditionally distinct but relevant to embedded software development such as for example component based design functional programming real time Java resource and storage allocation verification Each paper focuses on one topic showing the inter relationship and application to the design and implementation of embedded software systems *Object-Oriented Technology: ECOOP 2001 Workshop Reader* Akos Frohner, 2003-08-01 For the fth time in its history in cooperation with Springer Verlag the European C ference on Object Oriented Programming ECOOP conference series is glad to offer the object oriented research community the ECOOP 2001 Workshop Reader a c pendium of workshop reports panel transcripts and poster abstracts pertaining to the ECOOP 2001 conference held in Budapest from 18 to 22 June 2001 ECOOP 2001 hosted 19 high quality workshops covering a large spectrum of search topics The workshops attracted 460 participants on the rst two days of the conference Originally 22 workshops were chosen from 26 proposals by a workshop selection committee following a peer review process Due to the overlaps in the areas of interest and the suggestions made by the committee six of the groups decided to merge their topics into three workshops This book contains information on the panel poster session and 17 workshop reports for which we have to thank our workshop organizers who did a great job in preparing and formatting them The reports are organized around the main line of discussion comparing the rious approaches and giving a summary on the debates They also include the list of participants af liations contact information and the list of contributed position papers Although they usually do not include abstracts or excerpts of the position papers they do give useful references to other publications and websites where more information may be found **Advances in Automotive Control 2004 (2-volume Set)** G Rizzo, L Glielmo, C Pianese, F Vasca, 2005-11-07 *Languages for System Specification* Christoph Grimm, 2007-05-08 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 **Software Technologies** Enrique Cabello, Jorge Cardoso, André Ludwig, Leszek A. Maciaszek, Marten van Sinderen, 2017-07-11 This book constitutes the thoroughly refereed proceedings of the 11th International Joint Conference on Software Technologies ICSOFT 2016 held in Lisbon Portugal in July 2016 The 13 revised full papers together with 3 short papers presented were carefully reviewed and selected from 84 submissions The

papers selected to be included in this book contribute to the understanding of relevant trends of current research on software technologies including Modelling for mobile devices Software and system testing Model driven software development Reengineering systems for multi tenancy Embedded and real time systems reconfiguration Domain specific languages and modelling Software and systems quality Context aware and dynamically adapting software systems



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