Heinrich Rust

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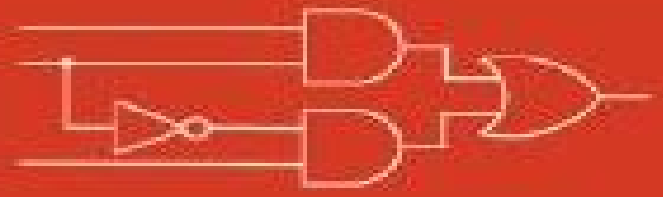
Operational Semantics for Timed Systems

A Non-standard Approach to Uniform Modeling of Timed and Hybrid Systems



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Operational Semantics For Timed Systems

Nathalie Bertrand,Nils Jansen

Operational Semantics For Timed Systems:

Operational Semantics for Timed Systems Heinrich Rust,2005-03-31 This monograph is dedicated to a novel approach for uniform modelling of timed and hybrid systems Heinrich Rust presents a time model which allows for both the description of discrete time steps and continuous processes with a dense real number time model The proposed time model is well suited to express synchronicity of events in a real number time model as well as strict causality by using uniform discrete time steps Thus it integrates and reconciles two views of time that are commonly used separately in di erent application domains In many discrete systems time is modelled by discrete steps of uniform length in continuous systems time is seen as a dense ow Themainideatointegratethesedi erentviewsisadiscretizationofthedense real number time structure by using constant in nitesimal time steps within each real number point in time The underlying mathematical structure of this time model is based on concepts of Non standard Analysis as proposed by Abraham Robinson in the 1950s The discrete modelling i e the descr tion of sequential discrete algorithms at di erent abstraction levels is done with Abstract State Machines along the formalisms developed by Yuri Gu vich and temporal logic These ingredients produce a rich formal basis for describing a large variety of systems with quantitative linear time prop ties by seamless integration re nement and embedding of continuous and discrete models into one uniform semantic framework called Non standard Timed Abstract State Machines NTASM **A Non-standard Approach to Operational Semantics for Timed Systems** ,2004 *Formal Modeling and Analysis of Timed Systems* Martin Fränzle,Nicolas Markey,2016-08-16 This book constitutes the refereed proceedings of the 14th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2016 held in Quebec QC Canada in August 2016 The 14 papers presented in this volume were carefully reviewed and selected from 32 initial submissions They are organized in topical sections entitled modeling timed phenomena stochasticity and hybrid control real time verification and synthesis workload analysis **Formal Modeling and Analysis of Timed Systems** Krishnendu Chatterjee,Thomas A. Henzinger,2010-09-07 This volume contains the papers that were presented at the 8th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2010 held September 8 10 2010 at IST Institute of Science and Technology Austria in Klosterneuburg Austria The modeling andanalysis oftiming aspects of systems is a keyproblem that has been treated independently in several di erent communities in computer science and related areas Researchers interested in semantics veri cation re timescheduling andperformanceanalysisstudymodelssuchastimedautomata and timed Petri nets the digital design community focuses on propagation and switching delays and designers of embedded controllers need to take into count the time requiredby controllersto compute their responses after sampling the environment Although the timing related questions in these separate c munities have their own speci c nature there is a growing awareness that there are basic problems that are common to all of them In particular all of these disciplines model and analyze systems whose behavior depends on combinations of logical and timing constraints between occurrences of events The aim of FORMATS is

to promote the study of fundamental and practical aspects of timed systems and to bring together researchers from di erent d ciplines that share an interest in the modeling and analysis of timed systems Typical topics include but are not limited to Foundations and Semantics theoretical foundations of timed systems and languages comparison between di erent models timed automata timed Petri nets hybrid automata timed process algebra max plus algebra pr abilistic models

Model-Based Engineering of Embedded Real-Time Systems Holger Giese,Gabor Karsai,Edward A. Lee,Bernhard Rumpe,Bernhard Schätz,2010-10-06 Thetopicof Model BasedEngineeringofReal TimeEmbeddedSystems brings together a challenging problem domain real time embedded systems and a lution domain model based engineering It is also at the forefrontof integrated software and systems engineering as software in this problem domain is an essential tool for system implementation and integration Today real time bedded software plays a crucial role in most advanced technical systems such as airplanes mobile phones and cars and has become the main driver and cilitator for innovation Development evolution veri cation con guration and maintenance of embedded and distributed software nowadays are often serious challenges as drastic increases in complexity can be observed in practice Model based engineering in general and model based software development in particular advocates the notion of using models throughout the development and life cycle of an engineered system Model based software engineering re forces this notion by promoting models not only as the tool of abstraction but also as the tool for veri cation implementation testing and maintenance The application of such model based engineering techniques to embedded real time systems appears to be a good candidate to tackle some of the problems arising in the problem domain *Formal Modeling and Analysis of Timed Systems* Nathalie Bertrand,Nils Jansen,2020-08-25 This book constitutes the refereed proceedings of the 18th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2020 held in Vienna Austria in September 2020 The 16 full papers and 2 short papers presented in this volume were carefully reviewed and selected from 42 submissions The papers focus on topics such as foundations and semantics methods and tools techniques algorithms data structures and software tools for analyzing timed systems and resolving temporal constraints Due to the Corona pandemic this conference was held as a virtual event Formal Modeling and Analysis of Timed Systems Alessandro Abate,Gilles Geeraerts,2017-09-01 This book constitutes the refereed proceedings of the 15th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2017 held in Berlin Germany in September 2017 The aim of FORMATS is to promote the study of fundamental and practical aspects of timed systems and to bring together researchers from different disciplines that share interests in modelling and analysis of timed systems and as a generalization hybrid systems **Formal Modeling and Analysis of Timed Systems** Marcin Jurdzinski,Dejan Nickovic,2012-08-31 This book constitutes the refereed proceedings of the 10th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2012 held in London UK in September 2012 The 16 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 34 submissions The book covers

topics of foundations and semantics methods and tools techniques algorithms hybrid automata appilcations real time software and hardware circuits Real-time Systems Aurel Cornell,2007 This book collects the research work of leading edge researchers and practitioners in the areas of analysis synthesis design and implementation of real time systems with applications in various industrial fields Their works are grouped into six parts together encompassing twenty chapters Each part is devoted to a mainstream subject the chapters therein developing one of the major aspects of real time system theory modeling design and practical applications Starting with a general approach in the area of formalization of real time systems and setting the foundations for a general systemic theory of those systems the book covers everything from building modeling frameworks for various types of real time systems to verification and synthesis Other parts of the book deal with subjects related to tools and applications of these systems A special part is dedicated to languages used for their modeling and design The applications presented in the book reveal precious insights into practitionersOCO secrets *Formal Methods for the Design of Real-Time Systems* Marco Bernardo,Flavio Corradini,2004-12-07 A large class of computing systems can be specified and verified by abstracting away from the temporal aspects of their behavior In real time systems instead time issues become essential Their correctness depends not only on which functions they can perform but also on the action execution time Due to their importance and design challenges real time systems have attracted the attention of a considerable number of computer scientists and engineers from various research areas This volume collects a set of papers accompanying the lectures of the fourth edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM The school addressed the use of formal methods in computer science as a prominent approach to the r orous design of computer communication and software systems The main aim of the SFM series is to o er a good spectrum of current research in foundations as well as applications of formal methods which can be of help for graduate students and young researchers who intend to approach the field SFM 04 RT was devoted to real time systems It covered formal models and languages for the specification modeling analysis and verification of the seti critical systems the expressiveness of such models and languages as well as supporting tools and related applications in different domains

Concurrent and Real-time Systems Steve Schneider,1999-11-15 The CSP approach has been widely used in the specification analysis and verification of concurrent and real time systems and for understanding the particular issues that can arise when concurrency is present It provides a language which enables specifications and designs to be clearly expressed and understood together with a supporting theory which allows them to be analyzed and shown to be correct This book supports advanced level courses on concurrency covering timed and untimed CSP The first half introduces the language of CSP the primary semantic models traces failures divergences and infinite traces and their use in the modelling analysis and verification of concurrent systems The second half of the book introduces time into the language brings in the timed semantic model timed failures and finally presents the theory of timewise refinement which links the two halves together

Accompanying website http www cs rhbnc ac uk books concurrency Containing the following Exercises and solutions Instructors resources Example CSP programs to run on FDR and ProBe Links to useful sites Partial Contents Part I The Language of CSP Sequential Processes Concurrency Abstraction and Control Flow Part II Analyzing Processes Traces Specification and Verification with Traces Stable Failures Specification and Verification with Failures Failures Divergences and Infinite Traces Part III Introducing Time The Timed Language Timed transition systems Part IV Timed Analysis Semantics of Timed CSP Timed Specification and Verification Timewise Refinement Appendix A Event based Time A 1 Standard CSP and tock A 2 Translating from Timed CSP A 3 Notes Appendix B Model checking with FDR B 1 Interacting with FDR B 2 How FDR Checks Refinement B 3 Machine readable CSP Index of Processes *Formal Techniques for Networked and Distributed Systems - FORTE 2005* Farn Wang,2005-10-20 This book constitutes the refereed proceedings of the 25th IFIP WG 6 1 International Conference on Formal Techniques for Networked and Distributed Systems FORTE 2005 held in Taipei Taiwan in October 2005 The 33 revised full papers and 6 short papers presented together with 3 keynote speeches were carefully reviewed and selected from 88 submissions The papers cover all current aspects of formal methods for distributed systems and communication protocols such as formal description techniques MSC UML Use cases semantic foundations model checking SAT based techniques process algebrae abstractions protocol testing protocol verification network synthesis security system analysis network robustness embedded systems communication protocols and several promising new techniques Fundamental Approaches to Software Engineering Tom Maibaum,2000-03-15 ETAPS2000wasthe third instanceofthe EuropeanJointConferenceson Theory and Practice of Software ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences This year it comprised v e conferences FOSSACS FASE ESOP CC TACAS ve satellite workshops CBS CMCS CoFI GRATRA INT seven invited lectures a panel discussion and ten tutorials The events that comprise ETAPS address various aspects of the system velopment process including speci cation design implementation analysis and improvement The languages methodologies and tools which support these tivities are all well within its scope Die rent blends of theory and practice are represented with an inclination towards theory with a practical motivation on one hand and soundly based practice on the other Many of the issues involved in software design apply to systems in general including hardware systems and the emphasis on software is not intended to be exclusive *Formal Techniques in Real-Time and Fault-Tolerant Systems* Anders P. Ravn,Hans Rischel,1998-09-02 This book constitutes the refereed proceedings of the 5th International Symposium on Formal Techniques in Real Time and Fault Tolerant Systems FTRTFT 98 held in Lyngby Denmark in September 1998 The 22 revised full papers presented were carefully selected and reviewed for inclusion in the book Also included are four invited contributions and five tool demonstrations The papers address the current aspects of the hot topic of embedded systems in particular temporal logic requirements engineering analysis techniques verification model checking and applications **Component-Based**

Software Development for Embedded Systems Colin Atkinson,2005-12-12 This book provides a good opportunity for software engineering practitioners and researchers to get in sync with the current state of the art and future trends in component based embedded software research The book is based on a selective compilation of papers that cover the complete component based embedded software spectrum ranging from methodology to tools Methodology aspects covered by the book include functional and non functional specification validation verification and component architecture As tools are a critical success factor in the transfer from academia generated knowledge to industry ready technology an important part of the book is devoted to tools This state of the art survey contains 16 carefully selected papers organised in topical sections on specification and verification component compatibility component architectures implementation and tool support as well as non functional properties **Semiotik / Semiotics. 1. Teilband** Roland Posner,Klaus Robering,Thomas A. Sebeok,2008-07-14 No detailed description available for SEMIOTIK POSNER U A 1 TLBD HSK 13 1 E BOOK **Real-Time Systems** Ernst-Rüdiger Olderog,Henning Dierks,2008-09-11 Real time systems need to react to certain input stimuli within given time bounds For example an airbag in a car has to unfold within 300 milliseconds in a crash There are many embedded safety critical applications and each requires real time specification techniques This text introduces three of these techniques based on logic and automata duration calculus timed automata and PLC automata The techniques are brought together to form a seamless design flow from real time requirements specified in the duration calculus via designs specified by PLC automata and into source code for hardware platforms of embedded systems The syntax semantics and proof methods of the specification techniques are introduced their most important properties are established and real life examples illustrate their use Detailed case studies and exercises conclude each chapter Ideal for students of real time systems or embedded systems this text will also be of great interest to researchers and professionals in transportation and automation Formal Methods and Hybrid Real-Time Systems Cliff B. Jones,Zhiming Liu,Jim Woodcock,2007-09-04 This Festschrift volume is published to honour both Dines Bj rner and Zhou Chaochen on the occasion of their 70th birthdays The volume includes 25 refereed papers by leading researchers current and former colleagues who congregated at a celebratory symposium held in Macao China in the course of the International Colloquium on Theoretical Aspects of Computing ICTAC 2007 The papers cover a broad spectrum of subjects Formal Modeling and Analysis of Timed Systems Kim G. Larsen,Peter Niebert,2004-04-08 This book constitutes the thoroughly refereed post proceedings of the First International Workshop on Formal Modeling and Analysis of Timed Systems FORMATS 2003 held in Marseille France in September 2003 The 19 revised full papers presented together with an invited paper and the abstracts of two invited talks were carefully selected from 36 submissions during two rounds of reviewing and improvement All current aspects of formal method for modeling and analyzing timed systems are addressed among the timed systems dealt with are timed automata timed Petri nets max plus algebras real time systems discrete time systems timed languages and real time operating systems Formal Modeling and Analysis of Timed Systems

Jean-Francois Raskin,P.S. Thiagarajan,2007-09-18 This book constitutes the refereed proceedings of the 5th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2007 It covers work on foundations and semantics of timed systems examines techniques algorithms data structures and software tools for analyzing timed systems and resolving temporal constraints and details applications like real time software hardware circuits and problems of scheduling in manufacturing and telecommunication

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