REAL-TIME SYSTEMS

Scheduling, Analysis, and Verification

ALBERT M. K. CHENG

Real Time Systems Scheduling Analysis And Verification

Giorgio C Buttazzo,Giuseppe Lipari,Luca Abeni,Marco Caccamo

Real Time Systems Scheduling Analysis And Verification:

Real-Time Systems Albert M. K. Cheng,2003-03-27 The first book to provide a comprehensive overview of the subject rather than a collection of papers The author is a recognized authority in the field as well as an outstanding teacher lauded for his ability to convey these concepts clearly to many different audiences A handy reference for practitioners in the field

Specification and Compositional Verification of Real-Time Systems Jozef Hooman,1991-11-27 The research described in this monograph concerns the formal specification and compositional verification of real time systems A real time programminglanguage is considered in which concurrent processes communicate by synchronous message passing along unidirectional channels To specifiy functional and timing properties of programs two formalisms are investigated one using a real time version of temporal logic called Metric Temporal Logic and another which is basedon extended Hoare triples Metric Temporal Logic provides a concise notationto express timing properties and to axiomatize the programming language whereas Hoare style formulae are especially convenient for the verification of sequential constructs For both approaches a compositional proof system has been formulated to verify that a program satisfies a specification To deduce timing properties of programs first maximal parallelism is assumed modeling the situation in which each process has itsown processor Next this model is generalized to multiprogramming where several processes may share a processor and scheduling is based on priorities The proof systems are shown to be sound and relatively complete with respect to a denotational semantics of the programming language The theory is illustrated by an example of a watchdog timer *Real-Time Systems Design and Analysis* Phillip A. Laplante,1997 IEEE Press is pleased to bring you this Second Edition of Phillip A Laplante s best selling and widely acclaimed practical guide to building real time systems This book is essential for improved system designs faster computation better insights and ultimate cost savings Unlike any other book in the field REAL TIME SYSTEMS DESIGN AND ANALYSIS provides a holistic systems based approach that is devised to help engineers write problem solving software Laplante s no nonsense guide to real time system design features practical coverage of Related technologies and their histories Time saving tips Hands on instructions Pascal code Insights into decreasing ramp up times and more *Real-Time Embedded Systems* Jiacun Wang,2017-07-10 Offering comprehensive coverage of the convergence of real time embedded systems scheduling resource access control software design and development and high level system modeling analysis and verification Following an introductory overview Dr Wang delves into the specifics of hardware components including processors memory I O devices and architectures communication structures peripherals and characteristics of real time operating systems Later chapters are dedicated to real time task scheduling algorithms and resource access control policies as well as priority inversion control and deadlock avoidance Concurrent system programming and POSIX programming for real time systems are covered as are finite state machines and Time Petri nets Of special interest to software engineers will be the chapter devoted to model checking in which the author discusses temporal logic and the NuSMV model checking tool

as well as a chapter treating real time software design with UML The final portion of the book explores practical issues of software reliability aging rejuvenation security safety and power management In addition the book Explains real time embedded software modeling and design with finite state machines Petri nets and UML and real time constraints verification with the model checking tool NuSMV Features real world examples in finite state machines model checking real time system design with UML and more Covers embedded computer programing designing for reliability and designing for safety Explains how to make engineering trade offs of power use and performance Investigates practical issues concerning software reliability aging rejuvenation security and power management Real Time Embedded Systems is a valuable resource for those responsible for real time and embedded software design development and management It is also an excellent textbook for graduate courses in computer engineering computer science information technology and software engineering on embedded and real time software systems and for undergraduate computer and software engineering courses *Foundations of Real-Time Computing: Scheduling and Resource Management* André M. van Tilborg,Gary M. Koob,1991-07-31 This volume contains a selection of papers that focus on the state of the art in real time scheduling and resource management Preliminary versions of these papers were presented at a workshop on the foundations of real time computing sponsored by the Office of Naval Research in October 1990 in Washington D C A companion volume by the title Foundations of Real Time Computing Fonnal Specifications and Methods complements this book by addressing many of the most advanced approaches currently being investigated in the arena of formal specification and verification of real time systems Together these two texts provide a comprehensive snapshot of current insights into the process of designing and building real time computing systems on a scientific basis Many of the papers in this book take care to define the notion of real time system precisely because it is often easy to misunderstand what is meant by that term Different communities of researchers variously use the term real time to refer to either very fast computing or immediate on line data acquisition or deadline driven computing This text is concerned with the very difficult problems of scheduling tasks and resource management in computer systems whose performance is inextricably fused with the achievement of deadlines Such systems have been enabled for a rapidly increasing set of diverse end uses by the unremitting advances in computing power per constant dollar cost and per constant unit volume of space End use applications of deadline driven real time computers span a spectrum that includes transportation systems robotics and manufacturing aerospace and defense industrial process control and telecommunications **Hard Real-Time Computing Systems** Giorgio C Buttazzo,2007-08-19 Real time computing plays a crucial role in our society since an increasing num ber of complex systems rely in part or completely on processor control Ex amples of applications that require real time computing include nuclear power plants railway switching systems automotive electronics air traffic control telecommunications robotics and military systems In spite of this large application domain most of the current real time systems are still designed and implemented using low level programming and empirical techniques without the support of a

scientific methodology This approach results in a lack of reliability which in critical applications may cause serious environmental damage or even loss of life This book is a basic treatise on real time computing with particular emphasis on predictable scheduling algorithms The main objectives of the book are to introduce the basic concepts of real time computing illustrate the most sig nificant results in the field and provide the basic methodologies for designing predictable computing systems useful in supporting critical control applica tions The book is written for instructional use and is organized to enable readers without a strong knowledge of the subject matter to quickly grasp the material Technical concepts are clearly defined at the beginning of each chapter and algorithm descriptions are reinforced through concrete examples illustrations and tables   **Real-Time and Distributed Real-Time Systems** Amitava Gupta,Anil Kumar Chandra,Peter Luksch,2016-04-27 Digital computers have revolutionized computation and transformed how computers are used to control systems in real life giving birth to real time systems Furthermore massive developments in the communications domain have made it possible for real time systems to perform coordinated actions over communication interfaces resulting in the evoluti   **Real-Time Systems, Architecture, Scheduling, and Application** Seyed Morteza Babamir,2012-04-11 This book is a rich text for introducing diverse aspects of real time systems including architecture specification and verification scheduling and real world applications It is useful for advanced graduate students and researchers in a wide range of disciplines impacted by embedded computing and software Since the book covers the most recent advances in real time systems and communications networks it serves as a vehicle for technology transition within the real time systems community of systems architects designers technologists and system analysts Real time applications are used in daily operations such as engine and break mechanisms in cars traffic light and air traffic control and heart beat and blood pressure monitoring This book includes 15 chapters arranged in 4 sections Architecture chapters 1 4 Specification and Verification chapters 5 6 Scheduling chapters 7 9 and Real word applications chapters 10 15   Distributed Real-Time Systems Jeffrey J. P. Tsai,1996-08-10 Distributed real time systems DRTSs are used in a wide range of applications including command and control systems flight control systems robotics patient monitoring systems and many others This volume provides an overview of various systematic approaches to the testing and debugging of DRTSs tasks that typically consume 50% to 70% of a new system s development costs Distributed Real Time Systems covers both the theoretical and practical issues involved in monitoring visualization and analysis methodology for verifying and debugging DRTSs It describes in detail how to overcome timing verification difficulties and improve system performance and reliability Complete with many carefully worked out examples as well as dozens of illustrations this timely and accessible work Explains real world debugging approaches proposed or tested using static analysis or dynamic analysis with or without monitoring Features step by step instructions for design implementation in hardware and software detecting timing errors and their causes graphical debugging methods and more Covers numerous analytical techniques including timed Petri nets temporal logic timed state transition systems timed process algebra and

synchronous programming languages Makes distributed systems analysis accessible through examples such as a distributed telephone switching system and a fault tolerant distributed system Reviews many relevant professional papers and current research work The joint product of four leaders in the field Distributed Real Time Systems is an important text and reference for electrical and software engineers graduate students and anyone involved in computer and data processing technology

Real-time Systems Dan Ionescu,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 practitioners secrets   *Principles of Cyber-Physical Systems* Rajeev Alur,2015-04-24 A foundational text that offers a rigorous introduction to the principles of design specification modeling and analysis of cyber physical systems A cyber physical system consists of a collection of computing devices communicating with one another and interacting with the physical world via sensors and actuators in a feedback loop Increasingly such systems are everywhere from smart buildings to medical devices to automobiles This textbook offers a rigorous and comprehensive introduction to the principles of design specification modeling and analysis of cyber physical systems The book draws on a diverse set of subdisciplines including model based design concurrency theory distributed algorithms formal methods of specification and verification control theory real time systems and hybrid systems explaining the core ideas from each that are relevant to system design and analysis The book explains how formal models provide mathematical abstractions to manage the complexity of a system design It covers both synchronous and asynchronous models for concurrent computation continuous time models for dynamical systems and hybrid systems for integrating discrete and continuous evolution The role of correctness requirements in the design of reliable systems is illustrated with a range of specification formalisms and the associated techniques for formal verification The topics include safety and liveness requirements temporal logic model checking deductive verification stability analysis of linear systems and real time scheduling algorithms Principles of modeling specification and analysis are illustrated by constructing solutions to representative design problems from distributed algorithms network protocols control design and robotics This book provides the rapidly expanding field of cyber physical systems with a long needed foundational text by an established authority It is suitable for classroom use or as a reference for professionals   **Automated Technology for Verification**

and Analysis Farn Wang,2004-10-11 It was our great pleasure to hold the 2nd International Symposium onAutomated Te nology on Veri cation and Analysis ATVA in Taipei Taiwan ROC October 31 November3 2004 TheseriesofATVAmeetingsisintendedforthepromotionofrelated research in eastern Asia In the last decade automated technology on veri cation has become the new strength in industry and brought forward various hot research activities in both Europe and USA In comparison easternAsia has been quiet in the forum With more and more IC design houses moving from SiliconValley to easternAsia we believe this is a good time to start cultivating related research activities in the region TheemphasisoftheATVAworkshopseriesisonvariousmechanicalandinformative techniques which can give engineers valuable feedback to fast converge their designs according to the speci cations The scope of interest contains the following research eas model checking theory theorem proving theory state space reduction techniques languages in automated veri cation parametric analysis optimization formal perf mance analysis real time systems embedded systems in nite state systems Petri nets UML synthesis tools and practice in industry *Real-Time Programming 2004* Matjaž Colnarič,Wolfgang A. Halang,Marek Węgrzyn,2005 This volume contains papers from the IFAC Workshop on Real Time Programming The aim of the Workshop was to bring together academic practitioners and industrialists involved in this important and expanding area of interest in order to exchange experiences on recent advances in this field Contents include DEPENDABILITY AND SAFETY FOR REAL TIME SYSTEMS REAL TIME PROGRAMMING TECHNIQUES SOFTWARE REQUIREMENT ENGINEERING CONTROL SYSTEMS DESIGN SOFTWARE DESIGN SOFTWARE ENGINEERING AND COMPLEX ENGINEERINGSYSTEMS **Soft Real-Time Systems: Predictability vs. Efficiency** Giorgio C Buttazzo,Giuseppe Lipari,Luca Abeni,Marco Caccamo,2006-07-02 Hard real time systems are very predictable but not sufficiently flexible to adapt to dynamic situations They are built under pessimistic assumptions to cope with worst case scenarios so they often waste resources Soft real time systems are built to reduce resource consumption tolerate overloads and adapt to system changes They are also more suited to novel applications of real time technology such as multimedia systems monitoring apparatuses telecommunication networks mobile robotics virtual reality and interactive computer games This unique monograph provides concrete methods for building flexible predictable soft real time systems in order to optimize resources and reduce costs It is an invaluable reference for developers as well as researchers and students in Computer Science **Runtime Verification** Christian Colombo,Martin Leucker,2018-11-07 This book constitutes the refereed proceedings of the 18th International Conference on Runtime Verification RV 2018 held in Limassol Cyprus in November 2018 The 21 full papers presented together with 3 short papers and 3 tool papers were carefully reviewed and selected from 49 submissions The RV conference is concerned with all aspects of monitoring and analysis of hardware software and more general system executions Runtime verification techniques are lightweight techniques to assess correctness reliability and robustness these techniques are significantly more powerful and versatile than conventional testing and more practical than exhaustive formal verification Chapter

Hardware based Runtime Verification with Embedded Tracing Units and Stream Processing is available open access under a Creative Commons Attribution 4 0 International License via link springer com   Introduction to Embedded Systems, Second Edition Edward Ashford Lee,Sanjit Arunkumar Seshia,2016-12-30 An introduction to the engineering principles of embedded systems with a focus on modeling design and analysis of cyber physical systems The most visible use of computers and software is processing information for human consumption The vast majority of computers in use however are much less visible They run the engine brakes seatbelts airbag and audio system in your car They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station They command robots on a factory floor power generation in a power plant processes in a chemical plant and traffic lights in a city These less visible computers are called embedded systems and the software they run is called embedded software The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes This book takes a cyber physical approach to embedded systems introducing the engineering concepts underlying embedded systems as a technology and as a subject of study The focus is on modeling design and analysis of cyber physical systems which integrate computation networking and physical processes The second edition offers two new chapters several new exercises and other improvements The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists Readers should have some familiarity with machine structures computer programming basic discrete mathematics and algorithms and signals and systems   Software Design Methods for Concurrent and Real-time Systems Hassan Gomaa,1993 This book describes the concepts and methods used in the software design of real time systems The author outlines the characteristics of real time systems describes the role of software design in real time system development surveys and compares some software design methods for real time systems and outlines techniques for the verification and validation of real time system designs   Real-Time Software Design for Embedded Systems Hassan Gomaa,2016-05-26 This tutorial reference takes the reader from use cases to complete architectures for real time embedded systems using SysML UML and MARTE and shows how to apply the COMET RTE design method to real world problems The author covers key topics such as architectural patterns for distributed and hierarchical real time control and other real time software architectures performance analysis of real time designs using real time scheduling and timing analysis on single and multiple processor systems Complete case studies illustrating design issues include a light rail control system a microwave oven control system and an automated highway toll system Organized as an introduction followed by several self contained chapters the book is perfect for experienced software engineers wanting a quick reference at each stage of the analysis design and development of large scale real time embedded systems as well as for advanced undergraduate or graduate courses in software engineering computer engineering and software design   Stochastic Scheduling Subhash C. Sarin,Balaji Nagarajan,Lingrui Liao,2010-03-31 Stochastic scheduling is in the area

of production scheduling There is a dearth of work that analyzes the variability of schedules In a stochastic environment in which the processing time of a job is not known with certainty a schedule is typically analyzed based on the expected value of a performance measure This book addresses this problem and presents algorithms to determine the variability of a schedule under various machine configurations and objective functions It is intended for graduate and advanced undergraduate students in manufacturing operations management applied mathematics and computer science and it is also a good reference book for practitioners Computer software containing the algorithms is provided on an accompanying website for ease of student and user implementation   Real Time Systems Liu,2004

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