

# CONSTRUCTING PREDICTABLE REAL TIME SYSTEMS

Harriet Knight

# Constructing Predictable Real Time Systems

**Ragunathan Rajkumar**



## **Constructing Predictable Real Time Systems:**

**Constructing Predictable Real Time Systems** Alexander D. Stoyenko, 2012-12-06 *Real-Time Systems* Hermann Kopetz, 2006-04-18 7 6 Performance Comparison ET versus TT 164 7 7 The Physical Layer 166 Points to Remember 168 Bibliographic Notes 169 Review Questions and Problems 170 Chapter 8 The Time Triggered Protocols 171 Overview 171 8 1 Introduction to Time Triggered Protocols 172 8 2 Overview of the TTP C Protocol Layers 175 8 3 The Basic CAN 178 Internal Operation of TTP C 181 8 4 8 5 TTP A for Field Bus Applications 185 Points to Remember 188 Bibliographic Notes 190 Review Questions and Problems 190 Chapter 9 Input Output 193 Overview 193 9 1 The Dual Role of Time 194 9 2 Agreement Protocol 196 9 3 Sampling and Polling 198 9 4 Interrupts 201 9 5 Sensors and Actuators 203 9 6 Physical Installation 207 Points to Remember 208 Bibliographic Notes 209 Review Questions and Problems 209 Chapter 10 Real Time Operating Systems 211 Overview 211 10 1 Task Management 212 10 2 Interprocess Communication 216 10 3 Time Management 218 10 4 Error Detection 219 10 5 A Case Study ERCOS 221 Points to Remember 223 Bibliographic Notes 224 Review Questions and Problems 224 Chapter 11 Real Time Scheduling 227 Overview 227 11 1 The Scheduling Problem 228 11 2 The Adversary Argument 229 11 3 Dynamic Scheduling 231 x TABLE OF CONTENTS 11 4 Static Scheduling 237 Points to Remember 240 Bibliographic Notes 242 Review Questions and Problems 242 Chapter 12 Validation 245 Overview 245 12 1 Building a Convincing Safety Case 246 12 2 Formal Methods 248 12 3 Testing *Operating Systems and Services* Ragunathan Rajkumar, 1999-08-31 *Operating Systems and Services* brings together in one place important contributions and up to date research results in this fast moving area *Operating Systems and Services* serves as an excellent reference providing insight into some of the most challenging research issues in the field **Fault-Tolerant Real-Time Systems** Stefan Poledna, 2007-11-23 Real time computer systems are very often subject to dependability requirements because of their application areas Fly by wire airplane control systems control of power plants industrial process control systems and others are required to continue their function despite faults Fault tolerance and real time requirements thus constitute a kind of natural combination in process control applications Systematic fault tolerance is based on redundancy which is used to mask failures of individual components The problem of replica determinism is thereby to ensure that replicated components show consistent behavior in the absence of faults It might seem trivial that given an identical sequence of inputs replicated computer systems will produce consistent outputs Unfortunately this is not the case The problem of replica non determinism and the presentation of its possible solutions is the subject of Fault Tolerant Real Time Systems The Problem of Replica Determinism The field of automotive electronics is an important application area of fault tolerant real time systems Systems like anti lock braking engine control active suspension or vehicle dynamics control have demanding real time and fault tolerance requirements These requirements have to be met even in the presence of very limited resources since cost is extremely important Because of its interesting properties Fault Tolerant Real Time Systems gives an introduction to the

application area of automotive electronics The requirements of automotive electronics are a topic of discussion in the remainder of this work and are used as a benchmark to evaluate solutions to the problem of replica determinism

**Imprecise and Approximate Computation** Swaminathan Natarajan,2007-08-26 Real time systems are now used in a wide variety of applications Conventionally they were configured at design to perform a given set of tasks and could not readily adapt to dynamic situations The concept of imprecise and approximate computation has emerged as a promising approach to providing scheduling flexibility and enhanced dependability in dynamic real time systems The concept can be utilized in a wide variety of applications including signal processing machine vision databases networking etc For those who wish to build dynamic real time systems which must deal safely with resource unavailability while continuing to operate leading to situations where computations may not be carried through to completion the techniques of imprecise and approximate computation facilitate the generation of partial results that may enable the system to operate safely and avert catastrophe Audience Of special interest to researchers May be used as a supplementary text in courses on real time systems *Safety and Reliability of Software Based Systems* Roger Shaw,2012-12-06 Safety and Reliability of Software Based Systems contains papers presented at the twelfth annual workshop organised by the Centre for Software Reliability Contributions come from different industries in many countries and provide discussion and cross fertilisation of ideas relevant to systems whose safety and or reliability are of paramount concern This book discusses safety cases and their varying roles in different industries using measurement to improve reliability and safety of software based systems latest developments in managing developing and assessing software intensive systems where reliability and or safety are important considerations and practical experiences of others in industry **Building Reliable Component-based Software Systems** Ivica Crnkovic,Magnus Peter Henrik Larsson,2002 Here s a complete guide to building reliable component based software systems Written by world renowned experts in the component based software engineering field this unique resource helps you manage complex software through the development evaluation and integration of software components You quickly develop a keen awareness of the benefits and risks to be considered when developing reliable systems using components A strong software engineering perspective helps you gain a better understanding of software component design to build systems with stronger requirements and avoid typical errors throughout the process leading to improved quality and time to market From component definition standards objects and frameworks to organizational development and support of the component based life cycle the book describes aspects of systems development using components and component development It focuses on dependable and real time systems employing case studies from the process automation industry software production electronic consumer equipment and office software development *Behavioral Intervals in Embedded Software* Fabian Wolf,2013-03-14 Behavioral Intervals in Embedded Software introduces a comprehensive approach to timing power and communication analysis of embedded software processes Embedded software timing power and communication are typically

not unique but occur in intervals which result from data dependent behavior environment timing and target system properties

**Deadline Scheduling for Real-Time Systems** John A. Stankovic, Marco Spuri, Krithi Ramamritham, Giorgio C. Buttazzo, 2012-12-06 Many real time systems rely on static scheduling algorithms This includes cyclic scheduling rate monotonic scheduling and fixed schedules created by off line scheduling techniques such as dynamic programming heuristic search and simulated annealing However for many real time systems static scheduling algorithms are quite restrictive and inflexible For example highly automated agile manufacturing command control and communications and distributed real time multimedia applications all operate over long lifetimes and in highly non deterministic environments Dynamic real time scheduling algorithms are more appropriate for these systems and are used in such systems Many of these algorithms are based on earliest deadline first EDF policies There exists a wealth of literature on EDF based scheduling with many extensions to deal with sophisticated issues such as precedence constraints resource requirements system overload multi processors and distributed systems Deadline Scheduling for Real Time Systems EDF and Related Algorithms aims at collecting a significant body of knowledge on EDF scheduling for real time systems but it does not try to be all inclusive the literature is too extensive The book primarily presents the algorithms and associated analysis but guidelines rules and implementation considerations are also discussed especially for the more complicated situations where mathematical analysis is difficult In general it is very difficult to codify and taxonomize scheduling knowledge because there are many performance metrics task characteristics and system configurations Also adding to the complexity is the fact that a variety of algorithms have been designed for different combinations of these considerations In spite of the recent advances there are still gaps in the solution space and there is a need to integrate the available solutions For example a list of issues to consider includes preemptive versus non preemptive tasks uni processors versus multi processors using EDF at dispatch time versus EDF based planning precedence constraints among tasks resource constraints periodic versus aperiodic versus sporadic tasks scheduling during overload fault tolerance requirements and providing guarantees and levels of guarantees meeting quality of service requirements Deadline Scheduling for Real Time Systems EDF and Related Algorithms should be of interest to researchers real time system designers and instructors and students either as a focussed course on deadline based scheduling for real time systems or more likely as part of a more general course on real time computing The book serves as an invaluable reference in this fast moving field

**Integrated Product, Process and Enterprise Design** Ben Wang, 2012-12-06 The need exists in the private sector and government manufacturing sites to reduce product development time production lead times inventory and non value added activities At the same time there is increased pressure to improve manufacturing process yields production efficiency and resource utilization Much of the technology required to meet these needs already exists but an integrated structure that can demonstrate the potential for the technology in a concurrent engineering context does not This book provides a road map for building the integrated technology environment to evaluate

existing products manufacturing processes and system design tools This book details innovative approaches that will significantly improve design manufacturing technology development and deployment capabilities for civilian and defense applications These approaches are integrated product process and system design IPPSD initiatives which will greatly enhance the manufacturing competitiveness of the economy These approaches involve the use of simulation modeling tools and computerized virtual workstations in conjunction with a design environment which allows a diverse group of researchers manufacturers and suppliers to work within a comprehensive network of shared knowledge The IPPSD infrastructure consists of virtual workstations servers and a suite of simulation quantitative computational analytical experimental and qualitative tools Such an IPPSD infrastructure will permit effective and efficient predictions of complete product design manufacturing process design and customer satisfaction

*Reliable Software Technologies - Ada Europe 96* Alfred Strohmeier, 1996-05-29 Content Description Includes bibliographical references and index [Real Time Computing](#)

Alexander D. Stoyenko, 2013-12-14 NATO's Division of Scientific and Environmental Affairs sponsored this Advanced Study Institute because it was felt to be timely to cover this important and challenging subject for the first time in the framework of NATO's ASI programme The significance of real time systems in everyone's life is rapidly growing The vast spectrum of these systems can be characterised by just a few examples of increasing complexity controllers in washing machines air traffic control systems control and safety systems of nuclear power plants and finally future military systems like the Strategic Defense Initiative SDI The importance of such systems for the well being of people requires considerable efforts in research and development of highly reliable real time systems Furthermore the competitiveness and prosperity of entire nations now depend on the early application and efficient utilisation of computer integrated manufacturing systems CIM of which real time systems are an essential and decisive part Owing to its key significance in computerised defence systems real time computing has also a special importance for the Alliance The early research and development activities in this field in the 1960s and 1970s aimed towards improving the then unsatisfactory software situation Thus the first high level real time languages were defined and developed RTL 2 Coral 66 Procol LTR and PEARL In close connection with these language developments and with the utilisation of special purpose process control peripherals the research on real time operating systems advanced considerably

**Software Technologies for Embedded and Ubiquitous Systems** Sang Lyul Min, Robert Pettit, Theo Ungerer, 2010-10-06 The 8th IFIP Workshop on Software Technologies for Embedded and Ubiquitous Systems SEUS 2010 in Waidhofen Ybbs Austria October 13 15 2010 succeeded the seven previous workshops in Newport Beach USA 2009 Capri Italy 2008 Santorini Greece 2007 Gyeongju Korea 2006 Seattle USA 2005 Vienna Austria 2004 and Hokodate Japan 2003 installing SEUS as a successfully established workshop in the field of embedded and ubiquitous systems SEUS 2010 continued the tradition of fostering cross community scientific excellence and establishing strong links between research and industry SEUS 2010 provided a forum where researchers and practitioners with substantial experiences and

serious interests in advancing the state of the art and the state of practice in the field of embedded and ubiquitous computing systems gathered with the goal of fostering new ideas collaborations and technologies The contributions in this volume present advances in integrating the fields of embedded computing and ubiquitous systems The call for papers attracted 30 submissions from all around the world Each submission was assigned to at least four members of the Program Committee for review The Program Committee decided to accept 21 papers which were arranged in eight sessions The accepted papers are from Austria Denmark France Germany Italy Japan Korea Portugal Taiwan UK and USA Two keynotes complemented the strong technical program

**Real-Time Database Systems** Kam-Yiu Lam, Tei-Wei Kuo, 2006-04-18 In recent years tremendous research has been devoted to the design of database systems for real time applications called real time database systems RTDBS where transactions are associated with deadlines on their completion times and some of the data objects in the database are associated with temporal constraints on their validity Examples of important applications of RTDBS include stock trading systems navigation systems and computer integrated manufacturing Different transaction scheduling algorithms and concurrency control protocols have been proposed to satisfy transaction timing data temporal constraints Other design issues important to the performance of a RTDBS are buffer management index accesses and I/O scheduling Real Time Database Systems Architecture and Techniques summarizes important research results in this area and serves as an excellent reference for practitioners researchers and educators of real time systems and database systems

**Techniques for Building Timing-Predictable Embedded Systems** Nan Guan, 2016-02-03 This book describes state of the art techniques for designing real time computer systems The author shows how to estimate precisely the effect of cache architecture on the execution time of a program how to dispatch workload on multicore processors to optimize resources while meeting deadline constraints and how to use closed form mathematical approaches to characterize highly variable workloads and their interaction in a networked environment Readers will learn how to deal with unpredictable timing behaviors of computer systems on different levels of system granularity and abstraction

**Real-Time Systems Engineering and Applications** Michael Schiebe, Saskia Pferrer, 2007-08-28 Real Time Systems Engineering and Applications is a well structured collection of chapters pertaining to present and future developments in real time systems engineering After an overview of real time processing theoretical foundations are presented The book then introduces useful modeling concepts and tools This is followed by concentration on the more practical aspects of real time engineering with a thorough overview of the present state of the art both in hardware and software including related concepts in robotics Examples are given of novel real time applications which illustrate the present state of the art The book concludes with a focus on future developments giving direction for new research activities and an educational curriculum covering the subject This book can be used as a source for academic and industrial researchers as well as a textbook for computing and engineering courses covering the topic of real time systems engineering

High-Integrity System Specification and Design

Jonathan P. Bowen, Michael G. Hinchey, 2012-12-06 Errata detected in Taylor's Logarithms London 4to 1792 sic 14 18 3 6 Kk Co sine of 3398 3298 Nautical Almanac 1832 In the list of ERRATA detected in Taylor's Logarithms for cos 4 18 3 read cos 14 18 2 Nautical Almanac 1833 ERRATUM of the ERRATUM of the ERRATA of TAYLOR'S Logarithms For cos 4 18 3 read cos 14 18 3 Nautical Almanac 1836 In the 1820s an Englishman named Charles Babbage designed and partly built a calculating machine originally intended for use in deriving and printing logarithmic and other tables used in the shipping industry At that time such tables were often inaccurate copied carelessly and had been instrumental in causing a number of maritime disasters Babbage's machine called a Difference Engine because it performed its calculations using the principle of partial differences was intended to substantially reduce the number of errors made by humans calculating the tables Babbage had also designed but never built a forerunner of the modern printer which would also reduce the number of errors admitted during the transcription of the results Nowadays a system implemented to perform the function of Babbage's engine would be classed as safety critical That is the failure of the system to produce correct results could result in the loss of human life mass destruction of property in the form of ships and cargo as well as financial losses and loss of competitive advantage for the shipping firm

**Real-Time Systems in Mechatronic Applications** Jan Wikander, Bertil Svensson, 2007-11-23 Real Time Systems in Mechatronic Applications brings together in one place important contributions and up to date research results in this fast moving area Real Time Systems in Mechatronic Applications serves as an excellent reference providing insight into some of the most challenging research issues in the field

**Hardware/Software Co-Design** Giovanni DeMicheli, M.G. Sami, 2013-11-11 Concurrent design or co design of hardware and software is extremely important for meeting design goals such as high performance that are the key to commercial competitiveness Hardware Software Co Design covers many aspects of the subject including methods and examples for designing 1 general purpose and embedded computing systems based on instruction set processors 2 telecommunication systems using general purpose digital signal processors as well as application specific instruction set processors 3 embedded control systems and applications to automotive electronics The book also surveys the areas of emulation and prototyping systems with field programmable gate array technologies hardware software synthesis and verification and industrial design trends Most contributions emphasize the design methodology the requirements and state of the art of computer aided co design tools together with current design examples

**Safe Comp 96** Erwin Schoitsch, 2012-12-06 SAFECOMP 96 contains papers presented at the 15th International Conference on Computer Safety Reliability and Security held in Vienna Austria 23 25 October 1996 The conference aimed to provide an opportunity for technical developers and users to discuss and review their experiences to consider the best technologies currently available and to identify the skills and technologies required for the future SAFECOMP 96 focuses on critical computer applications and is intended as a platform for technology transfer between academia industry and research institutions SAFECOMP 96 will be of interest to all those in universities research institutions industry and business who want

to be well informed about the current international state of the art in computer safety reliability and security

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