Real-Time Scheduling

- Primary goal: ensure predictability
- Secondary goal: ensure predictability
- Typical metrics:
  - Guarantee miss ration = 0 (hard real-time)
  - Guarantee Probability(missed deadline) < X% (firm real-time)
  - Minimize miss ration / maximize completion ration (firm real-time)
  - Minimize overall tardiness; maximize overall usefulness (soft real-time)
- E.g., EDF (Earliest Deadline First, LLF (Least Laxity First), RMS (Rate-Monotonic Scheduling), DM (Deadline Monotonic Scheduling)
- Recall: Real-time is about enforcing predictability, and does not equal to fast computing!!!

Scheduling In Real Time Systems

Sanjoy Baruah,Marko Bertogna,Giorgio Buttazzo

Scheduling In Real Time Systems:

Scheduling in Real-Time Systems Francis Cottet,Joëlle Delacroix,Claude Kaiser,Zoubir Mammeri,2002-11-22 Real time systems are used in a wide range of applications including command and control systems flight control telecommunication systems and online purchase payment Provides an accessible yet comprehensive treatment of real time computing and communications systems Outlines the basics of real time scheduling and scheduling policies designed for real time applications Each chapter contains examples and case studies along with test exercises and solutions

Multiprocessor Scheduling for Real-Time Systems Sanjoy Baruah,Marko Bertogna,Giorgio Buttazzo,2015-01-02 This book provides a comprehensive overview of both theoretical and pragmatic aspects of resource allocation and scheduling in multiprocessor and multicore hard real time systems The authors derive new abstract models of real time tasks that capture accurately the salient features of real application systems that are to be implemented on multiprocessor platforms and identify rules for mapping application systems onto the most appropriate models New run time multiprocessor scheduling algorithms are presented which are demonstrably better than those currently used both in terms of run time efficiency and tractability of off line analysis Readers will benefit from a new design and analysis framework for multiprocessor real time systems which will translate into a significantly enhanced ability to provide formally verified safety critical real time systems at a significantly lower cost   **Deadline Scheduling for Real-Time Systems** John A. Stankovic,Marco Spuri,Krithi Ramamritham,Giorgio Buttazzo,1998-10-31 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   *Real-Time Systems Design and Analysis* Phillip A. Laplante,2004-04-26 The leading guide to real time systems design revised and updated This third edition of Phillip Laplante s bestselling practical guide to building real time systems maintains its predecessors unique holistic systems based approach devised to help engineers write problem solving software Dr Laplante incorporates a survey of related technologies and their histories complete with time saving practical tips hands on instructions C code and insights into decreasing ramp up times Real Time Systems Design and Analysis Third Edition is essential for students and practicing software engineers who want improved designs faster computation and ultimate cost savings Chapters discuss hardware considerations and software requirements software systems design the software production process performance estimation and optimization and engineering considerations This new edition has been revised to include Up to date information on object oriented technologies for real time including object oriented analysis design and languages such as Java C and C Coverage of significant developments in the field such as New life cycle methodologies and advanced programming practices for real time including Agile methodologies Analysis techniques for commercial real time operating system technology Hardware advances including field programmable gate arrays and memory technology Deeper coverage of Scheduling and rate monotonic theories Synchronization and communication techniques Software testing and metrics Real Time Systems Design and Analysis Third Edition remains an unmatched resource for students and practicing software engineers who want improved designs faster computation and ultimate cost savings   **Real-Time Systems** Jane W. S. Liu,2000 This text describes not only how but also why through insightful illustrative examples Real Time Systems is both a valuable reference for professionals and an advanced text for Computer Science and Computer Engineering students BOOK JACKET   **Real-Time Systems** Rajib Mall,2009-05 The presence and use of real time systems is becoming increasingly common Examples of such systems range from nuclear reactors to automotive controllers and also entertainment software such as games and graphics animation The growing importance of rea   **Hard Real-Time Computing Systems** Giorgio C Buttazzo,2011-09-10 This updated edition offers an indispensable exposition on real time computing with particular emphasis on predictable scheduling algorithms It introduces the fundamental concepts of real time computing demonstrates the most significant results in the field and

provides the essential methodologies for designing predictable computing systems used to support time critical control applications Along with an in depth guide to the available approaches for the implementation and analysis of real time applications this revised edition contains a close examination of recent developments in real time systems including limited preemptive scheduling resource reservation techniques overload handling algorithms and adaptive scheduling techniques This volume serves as a fundamental advanced level textbook Each chapter provides basic concepts which are followed by algorithms illustrated with concrete examples figures and tables Exercises and solutions are provided to enhance self study making this an excellent reference for those interested in real time computing for designing and or developing predictable control applications **Real-Time Database Systems** Azer Bestavros,Kwei-Jay Lin,Sang Hyuk Son,2012-12-06 Despite the growing interest in Real Time Database Systems there is no single book that acts as a reference to academics professionals and practitioners who wish to understand the issues involved in the design and development of RTDBS Real Time Database Systems Issues and Applications fulfills this need This book presents the spectrum of issues that may arise in various real time database applications the available solutions and technologies that may be used to address these issues and the open problems that need to be tackled in the future With rapid advances in this area several concepts have been proposed without a widely accepted consensus on their definitions and implications To address this need the first chapter is an introduction to the key RTDBS concepts and definitions which is followed by a survey of the state of the art in RTDBS research and practice The remainder of the book consists of four sections models and paradigms applications and benchmarks scheduling and concurrency control and experimental systems The chapters in each section are contributed by experts in the respective areas Real Time Database Systems Issues and Applications is primarily intended for practicing engineers and researchers working in the growing area of real time database systems For practitioners the book will provide a much needed bridge for technology transfer and continued education For researchers this book will provide a comprehensive reference for well established results This book can also be used in a senior or graduate level course on real time systems real time database systems and database systems or closely related courses   Real-Time and Embedded Computing Systems and Applications Jing Chen,Seongsoo Hong,2004-05-21 This book constitutes the thoroughly refereed post proceedings of the 9th International Conference on Real Time and Embedded Systems and Applications RTCSA 2003 held in Tainan Taiwan in February 2003 The 28 revised full papers and 9 revised short papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on scheduling networking and communication embedded systems and environments pervasive and ubiquitous computing systems and architectures resource management file systems and databases performance analysis and tools and development   *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 **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 **Hard Real-Time Computing Systems** Giorgio Buttazzo,2010-12-01 Hard Real Time Computing Systems Predictable Scheduling Algorithms and Applications is a basic treatise on real time computing with particular emphasis on predictable scheduling algorithms It introduces the fundamental concepts of real time computing illustrates the most significant results in the field and provides the essential methodologies for designing predictable computing systems which can be used to support critical control applications This volume serves as a textbook for advanced level courses on the topic Each chapter provides basic concepts which are followed by algorithms that are illustrated with concrete examples figures and tables Exercises are included with each chapter and solutions are given at the end of the book The book also provides an excellent reference for those interested in real time computing for designing and or developing predictable control applications Fundamentals of Pervasive Information Management Systems Vijay Kumar,2013-06-27 A comprehensive new edition on mobile computing coveringboth mobile and sensor data The new paradigm of pervasive computing was born from the needsof highly mobile workers to access and transfer data while on thego Significant advances in the technology have lent and willcontinue to lend prevalence to its use especially inm commerce Covering both mobile data and sensor data thiscomprehensive text offers updated research on sensor technology data stream processing mobile database security and contextualprocessing Packed with cases studies exercises and examples Fundamentals of Pervasive Information Management Systemscovers essential aspects of wireless communication and provides athorough discussion about managing information on mobile databasesystems MDS It addresses the integration of web and workflowwith mobile computing and looks at the current state

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wireless sensor networks Energy aware real time methods   Modeling and Simulation in HPC and Cloud Systems Joanna Kołodziej,Florin Pop,Ciprian Dobre,2018-01-30 This book consists of eight chapters five of which provide a summary of the tutorials and workshops organised as part of the cHiPSet Summer School High Performance Modelling and Simulation for Big Data Applications Cost Action on New Trends in Modelling and Simulation in HPC Systems which was held in Bucharest Romania on September 21 23 2016 As such it offers a solid foundation for the development of new generation data intensive intelligent systems Modelling and simulation MS in the big data era is widely considered the essential tool in science and engineering to substantiate the prediction and analysis of complex systems and natural phenomena MS offers suitable abstractions to manage the complexity of analysing big data in various scientific and engineering domains Unfortunately big data problems are not always easily amenable to efficient MS over HPC high performance computing Further MS communities may lack the detailed expertise required to exploit the full potential of HPC solutions and HPC architects may not be fully aware of specific MS requirements The main goal of the Summer School was to improve the participants practical skills and knowledge of the novel HPC driven models and technologies for big data applications The trainers who are also the authors of this book explained how to design construct and utilise the complex MS tools that capture many of the HPC modelling needs from scalability to fault tolerance and beyond In the final three chapters the book presents the first outcomes of the school new ideas and novel results of the research on security aspects in clouds first prototypes of the complex virtual models of data in big data streams and a data intensive computing framework for opportunistic networks It is a valuable reference resource for those wanting to start working in HPC and big data systems as well as for advanced researchers and practitioners

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