

Embedded Systems

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Scheduling Real-Time Streaming Applications onto an Embedded Multiprocessor

Multiprocessor Scheduling For Real Time Systems Embedded Systems

Bernd Kleinjohann



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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

Handbook of Real-Time and Embedded Systems Insup Lee, Joseph Y-T. Leung, Sang H. Son, 2007-07-23 Real time and embedded systems are essential to our lives from controlling car engines and regulating traffic lights to monitoring plane takeoffs and landings to providing up to the minute stock quotes Bringing together researchers from both academia and industry the Handbook of Real Time and Embedded Systems provides comprehensive coverage

Distributed Real-Time Systems K. Erciyes, 2019-07-23 This classroom tested textbook describes the design and implementation of software for distributed real time systems using a bottom up approach The text addresses common challenges faced in software projects involving real time systems and presents a novel method for simply and effectively performing all of the software engineering steps Each chapter opens with a discussion of the core concepts together with a review of the relevant methods and available software This is then followed with a description of the implementation of the concepts in a sample kernel complete with executable code Topics and features introduces the fundamentals of real time systems including real time architecture and distributed real time systems presents a focus on the real time operating system covering the concepts of task memory and input output management provides a detailed step by step construction of a real time operating system kernel which is then used to test various higher level implementations describes periodic and aperiodic scheduling resource management and distributed scheduling reviews the process of application design from high level design methods to low level details of design and implementation surveys real time programming languages and fault tolerance techniques includes end of chapter review questions extensive C code numerous examples and a case study implementing the methods in real world applications supplies additional material at an associated website Requiring only a basic background in computer architecture and operating systems this practically oriented work is an invaluable study aid for senior undergraduate and graduate level students of electrical and computer engineering and computer science The text will also serve as a useful general reference for researchers interested in real time systems

Architecture and Design of Distributed Embedded Systems Bernd Kleinjohann, 2013-04-18 Due to the decreasing production costs of IT systems

applications that had to be realised as expensive PCBs formerly can now be realised as a system on chip Furthermore low cost broadband communication media for wide area communication as well as for the realisation of local distributed systems are available Typically the market requires IT systems that realise a set of specific features for the end user in a given environment so called embedded systems Some examples for such embedded systems are control systems in cars airplanes houses or plants information and communication devices like digital TV mobile phones or autonomous systems like service or edutainment robots For the design of embedded systems the designer has to tackle three major aspects The application itself including the man machine interface The target architecture of the system including all functional and non functional constraints and the design methodology including modelling specification synthesis test and validation The last two points are a major focus of this book This book documents the high quality approaches and results that were presented at the International Workshop on Distributed and Parallel Embedded Systems DIPES 2000 which was sponsored by the International Federation for Information Processing IFIP and organised by IFIP working groups WG10 3 WG10 4 and WG10 5 The workshop took place on October 18 19 2000 in Schlo Eringerfeld near Paderborn Germany Architecture and Design of Distributed Embedded Systems is organised similar to the workshop Chapters 1 and 4 Methodology I and II deal with different modelling and specification paradigms and the corresponding design methodologies Generic system architectures for different classes of embedded systems are presented in Chapter 2 In Chapter 3 several design environments for the support of specific design methodologies are presented Problems concerning test and validation are discussed in Chapter 5 The last two chapters include distribution and communication aspects Chapter 6 and synthesis techniques for embedded systems Chapter 7 This book is essential reading for computer science researchers and application developers

Principles of Distributed Systems Chenyang Lu, Toshimitsu Masuzawa, Mohamed Mosbah, 2010 Annotation Constituting the refereed proceedings of the 14th International Conference on Principles of Distributed Systems OPODIS 2010 held in Tozeur Tunisia in December 2010 this volume contains 32 full papers on topics discussed at the conference

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

Energy-aware Scheduling on Multiprocessor Platforms Dawei Li, Jie Wu, 2012-10-19 Multiprocessor platforms play important roles in modern computing systems and appear in various applications ranging from energy limited hand held devices to large data centers As the performance requirements increase energy consumption in these systems also increases significantly Dynamic Voltage and Frequency Scaling DVFS

which allows processors to dynamically adjust the supply voltage and the clock frequency to operate on different power energy levels is considered an effective way to achieve the goal of energy saving This book surveys existing works that have been on energy aware task scheduling on DVFS multiprocessor platforms Energy aware scheduling problems are intrinsically optimization problems the formulations of which greatly depend on the platform and task models under consideration Thus Energy aware Scheduling on Multiprocessor Platforms covers current research on this topic and classifies existing works according to two key standards namely homogeneity heterogeneity of multiprocessor platforms and the task types considered Under this classification other sub issues are also included such as slack reclamation fixed dynamic priority scheduling partition based global scheduling and application specific power consumption etc *Scheduling Real-Time Streaming Applications onto an Embedded Multiprocessor* Orlando Moreira,Henk Corporaal,2013-11-20 This book provides a comprehensive overview of the state of the art data flow based techniques for the analysis modeling and mapping technologies of concurrent applications on multi processors The authors present a flow for designing embedded hard firm real time multiprocessor streaming applications based on data flow formalisms with a particular focus on wireless modem applications Architectures are described for the design tools and run time scheduling and resource management of such a platform

Rugged Embedded Systems Augusto Vega,Pradip Bose,Alper Buyuktosunoglu,2016-12-02 Rugged Embedded Systems Computing in Harsh Environments describes how to design reliable embedded systems for harsh environments including architectural approaches cross stack hardware software techniques and emerging challenges and opportunities A harsh environment presents inherent characteristics such as extreme temperature and radiation levels very low power and energy budgets strict fault tolerance and security constraints etc that challenge the computer system in its design and operation To guarantee proper execution correct safe and low power in such scenarios this contributed work discusses multiple layers that involve firmware operating systems and applications as well as power management units and communication interfaces This book also incorporates use cases in the domains of unmanned vehicles advanced cars and micro aerial robots and space exploration as examples of computing designs for harsh environments Provides a deep understanding of embedded systems for harsh environments by experts involved in state of the art autonomous vehicle related projects Covers the most important challenges fault tolerance power efficiency and cost effectiveness faced when developing rugged embedded systems Includes case studies exploring embedded computing for autonomous vehicle systems advanced cars and micro aerial robots and space exploration

Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1 Suresh Chandra Satapathy,A. Govardhan,K. Srujan Raju,J. K. Mandal,2014-11-30 This volume contains 73 papers presented at CSI 2014 Emerging ICT for Bridging the Future Proceedings of the 49th Annual Convention of Computer Society of India The convention was held during 12 14 December 2014 at Hyderabad Telangana India This volume contains papers mainly focused on Fuzzy Systems Image

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