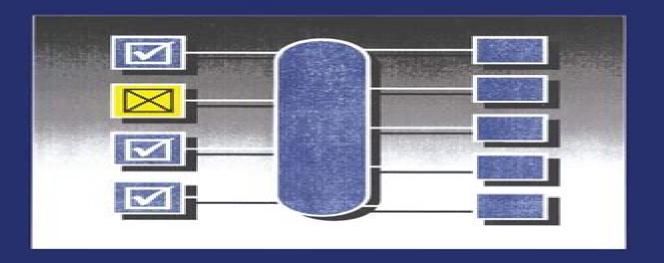
FAULT-TOLERANT PARALLEL COMPUTATION



Paris Christos Kanellakis Alex Allister Shvartsman

Foreword by Franco P. Preparata

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Fault Tolerant Parallel Computation

Rachel S Tattersall

Fault Tolerant Parallel Computation:

Fault-Tolerant Parallel Computation Paris Christos Kanellakis, Alex Allister Shvartsman, 2013-03-09 Fault Tolerant Parallel Computation presents recent advances in algorithmic ways of introducing fault tolerance in multiprocessors under the constraint of preserving efficiency. The difficulty associated with combining fault tolerance and efficiency is that the two have conflicting means fault tolerance is achieved by introducing redundancy while efficiency is achieved by removing redundancy. This monograph demonstrates how in certain models of parallel computation it is possible to combine efficiency and fault tolerance and shows how it is possible to develop efficient algorithms without concern for fault tolerance and then correctly and efficiently execute these algorithms on parallel machines whose processors are subject to arbitrary dynamic fail stop errors. The efficient algorithmic approaches to multiprocessor fault tolerance presented in this monograph make a contribution towards bridging the gap between the abstract models of parallel computation and realizable parallel architectures Fault Tolerant Parallel Computation presents the state of the art in algorithmic approaches to fault tolerance in efficient parallel algorithms. The monograph synthesizes work that was presented in recent symposia and published in refereed journals by the authors and other leading researchers. This is the first text that takes the reader on the grand tour of this new field summarizing major results and identifying hard open problems. This monograph will be of interest to academic and industrial researchers and graduate students working in the areas of fault tolerance algorithms and parallel computation and may also be used as a text in a graduate course on parallel algorithmic techniques and fault tolerance.

Fault-Tolerant Parallel and Distributed Systems Dimiter R. Avresky, David R. Kaeli, 2012-12-06 The most important use of computing in the future will be in the context of the global digital convergence where everything becomes digital and every thing is inter networked The application will be dominated by storage search retrieval analysis exchange and updating of information in a wide variety of forms Heavy demands will be placed on systems by many simultaneous re quests And fundamentally all this shall be delivered at much higher levels of dependability integrity and security Increasingly large parallel computing systems and networks are providing unique challenges to industry and academia in dependable computing espe cially because of the higher failure rates intrinsic to these systems The chal lenge in the last part of this decade is to build a systems that is both inexpensive and highly available A machine cluster built of commodity hardware parts with each node run ning an OS instance and a set of applications extended to be fault resilient can satisfy the new stringent high availability requirements The focus of this book is to present recent techniques and methods for im plementing fault tolerant parallel and distributed computing systems Section I Fault Tolerant Protocols considers basic techniques for achieving fault tolerance in communication protocols for distributed systems including synchronous and asynchronous group communication static total causal order ing protocols and fail aware datagram service that supports communications by time

Hardware and Software Fault Tolerance in Parallel Computing Systems Dimitri Ranguelov Avresky,1992

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Applications, 1992 The objective of our research was to investigate techniques for designing fault tolerant parallel computer systems for critical real time applications. The focus of our research was to develop the practical fault tolerance design implementation and analysis technology with the considerations of real time recovery structuring of recoverable interactions and handling of software as well as hardware failure in distributed parallel computing environments. We also investigate techniques for scheduling of real time messages as well as real time tasks in fault tolerant distributed systems.

Fault-tolerant and Efficient Parallel Computation Alexander Allister Shvartsman, 1992 Digest of papers Workshop on Fault Tolerant Parallel and Distributed Systems, 1992 **Cooperative Task-Oriented Computing Chryssis** Georgiou, Alexander Shvartsman, 2022-06-01 Cooperative network supercomputing is becoming increasingly popular for harnessing the power of the global Internet computing platform A typical Internet supercomputer consists of a master computer or server and a large number of computers called workers performing computation on behalf of the master Despite the simplicity and benefits of a single master approach as the scale of such computing environments grows it becomes unrealistic to assume the existence of the infallible master that is able to coordinate the activities of multitudes of workers Large scale distributed systems are inherently dynamic and are subject to perturbations such as failures of computers and network links thus it is also necessary to consider fully distributed peer to peer solutions. We present a study of cooperative computing with the focus on modeling distributed computing settings algorithmic techniques enabling one to combine efficiency and fault tolerance in distributed systems and the exposition of trade offs between efficiency and fault tolerance for robust cooperative computing The focus of the exposition is on the abstract problem called Do All and formulated in terms of a system of cooperating processors that together need to perform a collection of tasks in the presence of adversity Our presentation deals with models algorithmic techniques and analysis Our goal is to present the most interesting approaches to algorithm design and analysis leading to many fundamental results in cooperative distributed computing The algorithms selected for inclusion are among the most efficient that additionally serve as good pedagogical examples Each chapter concludes with exercises and bibliographic notes that include a wealth of references to related work and relevant advanced results Table of Contents Introduction Distributed Cooperation and Adversity Paradigms and Techniques Shared Memory Algorithms Message Passing Algorithms The Do All Problem in Other Settings Bibliography Authors Biographies

Information Dispersal and Parallel Computation Yuh-Dauh Lyuu,2004-07-05 In 1989 Michael Rabin proposed a fundamentally new approach to the problems of fault tolerant routing and memory management in parallel computation based on the idea of information dispersal Yuh Dauh Lyuu developed this idea in a number of new and exciting ways in his PhD thesis Further work has led to extensions of these methods to other applications such as shared memory emulations This volume presents an extended and updated printing of Lyuu s thesis It gives a detailed treatment of the information dispersal

approach to the problems of fault tolerance and distributed representations of information which have resisted rigorous analysis by previous methods Models of Computation in Context Benedikt Löwe, Dag Normann, Ivan Soskov, Alexandra Soskova, 2011-09-15 This book constitutes the refereed proceedings of the 7th Conference on Computability in Europe CiE 2011 held in Sofia Bulgaria in June July 2011 The 22 revised papers presented together with 11 invited lectures were carefully reviewed and selected with an acceptance rate of under 40% The papers cover the topics computability in analysis algebra and geometry classical computability theory natural computing relations between the physical world and formal models of computability theory of transfinite computations and computational linguistics Computational Science - ICCS 2001 Vassil N. Alexandrov, Jack J. Dongarra, Benjoe A. Juliano, Rene S. Renner, C.J. Kenneth Tan, 2003-05-15 LNCS volumes 2073 and 2074 contain the proceedings of the International Conference on Computational Science ICCS 2001 held in San Francisco California May 27 31 2001 The two volumes consist of more than 230 contributed and invited papers that reflect the aims of the conference to bring together researchers and scientists from mathematics and computer science as basic computing disciplines researchers from various application areas who are pioneering advanced application of computational methods to sciences such as physics chemistry life sciences and engineering arts and humanitarian fields along with software developers and vendors to discuss problems and solutions in the area to identify new issues and to shape future directions for research as well as to help industrial users apply various advanced computational techniques **Do-All Computing in Distributed Systems** Chryssis Georgiou, 2007-11-27 This book studies algorithmic issues associated with cooperative execution of multiple independent tasks by distributed computing agents including partitionable networks It provides the most significant algorithmic solution developed and available today for do all computing for distributed systems including partitionable networks and is the first monograph that deals with do all computing for distributed systems The book is structured to meet the needs of a professional audience composed of researchers and practitioners in industry This volume is also suitable for graduate level students in computer science Dependable Systems: Software, Computing, Networks Jürg Kohlas, Bertrand Meyer, André Schiper, 2006-07-31 Modern civilization relies on a functioning information infrastructure As a result dependability has become a central issue in all disciplines of systems engineering and software architecture Theories methods and tools that help to master the problems encountered in the design process and the management of operations are therefore of utmost importance for the future of information and communication technology. The present volume documents the results of a research program on Dependable Information and Communication Systems DICS The members of the project met in two workshops organized by the Hasler Foundation This state of the art survey contains 3 overview articles identifying major issues of dependability and presenting the latest solutions as well as 10 carefully selected and revised papers depicting the research results originating from those workshops. The first workshop took place in M nchenwiler Switzerland in March 2004 and the second workshop which marked the conclusion of the projects in L wenberg

Switzerland in October 2005 The papers are organized in topical sections on surveys dependable software dependable Visual Informatics: Bridging Research and Practice Halimah Badioze computing and dependable networks Zaman, Peter Robinson, Maria Petrou, Patrick Olivier, Heiko Schröder, 2009-11-14 Visual informatics is a field of interest not just among the information technology and computer science community but also other related fields such as engineering me cal and health informatics and education starting in the early 1990s Recently the field is gaining more attention from researchers and industry It has become a mul disciplinary and trans disciplinary field related to research areas such as computer vision visualization information visualization real time image processing medical image processing image information retrieval virtual reality augmented reality pressive visual mathematics 3D graphics multimedia fusion visual data mining visual ontology as well as services and visual culture Various efforts has been vested in different research but operationally many of these systems are not pro nent in the mass market and thus knowledge and research on these phenomena within the mentioned areas need to be shared and disseminated It is for this reason that the Visual Informatics Research Group from Universiti bangsaan Malaysia UKM decided to spearhead this initiative to bring together experts in this very diversified but important research area so that more concerted efforts can be undertaken not just within the visual informatics community in Malaysia but from other parts of the world namely Asia Europe Oceania and USA This first International Visual Informatics Conference IVIC 2009 was conducted collaboratively by the visual informatics research community from the various public and private institutions of higher learning in Malaysia and hosted by UKM Safety, Reliability, and Security Stefano Tonetta, Erwin Schoitsch, Friedemann Bitsch, 2017-08-28 This book constitutes the refereed proceedings of the 36th International Conference on ComputerSafety Reliability and Security SAFECOMP 2017 held in Trento Italy in September 2017 The 22 revised full papers and two abstracts of keynotes presented were carefully reviewed and selected from 65 submissions The papers are organized in topical sections on dynamic fault trees safety case and argumentation formal verification autonomous systems static analysis and testing safety analysis and assessment safety **Distributed Computing** Jennifer Welch, 2001-09-19 This book consitutes the refereed proceedings of the and security 15th International Conference on Distributed Computing DISC 2001 held in Lisbon Portugal in October 2001 The 23 revised papers presented were carefully reviewed and selected from 70 submissions Among the issues addressed are mutual exclusion anonymous networks distributed files systems information diffusion computation slicing commit services renaming mobile search randomized mutual search message passing networks distributed queueing leader election algorithms Markov chains network routing ad hoc mobile networks and adding networks Scientific and Technical Aerospace Reports, 1995 Distributed Computing and Networking Mainak Chatterjee, Jian-nong Cao, Kishore Kothapalli, Sergio

Distributed Computing and Networking Mainak Chatterjee, Jian-nong Cao, Kishore Kothapalli, Sergio Rajsbaum, 2014-01-02 This book constitutes the proceedings of the 15th International Conference on Distributed Computing and Networking ICDCN 2014 held in Coimbatore India in January 2014 The 32 full papers and 8 short papers presented in

this volume were carefully reviewed and selected from 110 submissions. They are organized in topical sections named mutual exclusion agreement and consensus parallel and multi core computing distributed algorithms transactional memory P2P and distributed networks resource sharing and scheduling cellular and cognitive radio networks and backbone networks

Parallel and Distributed Processing Jose Rolim,1998-03-18 This book constitutes the refereed proceedings of 10 international workshops held in conjunction with the merged 1998 IPPS SPDP symposia held in Orlando Florida US in March April 1998 The volume comprises 118 revised full papers presenting cutting edge research or work in progress In accordance with the workshops covered the papers are organized in topical sections on reconfigurable architectures run time systems for parallel programming biologically inspired solutions to parallel processing problems randomized parallel computing solving combinatorial optimization problems in parallel PC based networks of workstations fault tolerant parallel and distributed systems formal methods for parallel programming embedded HPC systems and applications and parallel and distributed real time systems

Algorithms and Architectures for Real-Time Control 1991 P.J. Fleming,D.I. Jones,2014-07-22

Computer scientists have long appreciated that the relationship between algorithms and architecture is crucial Broadly speaking the more specialized the architecture is to a particular algorithm then the more efficient will be the computation

The penalty is that the architecture will become useless for computing anything other than that algorithm This message holds for the algorithms used in real time automatic control as much as any other field These Proceedings will provide researchers in this field with a useful up to date reference source of recent developments

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