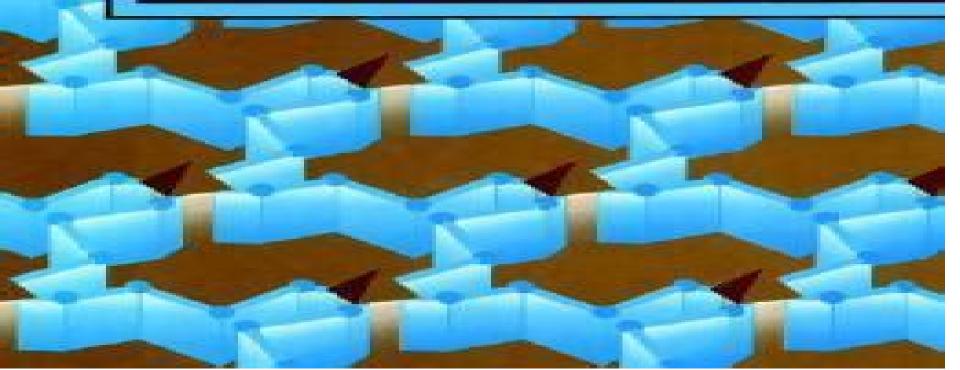
Reliable Distributed Computing with the Isis Toolkit

KENNETH E BIRMAN ROBBERT VAN RENESSE



<u>Reliable Distributed Computing With The Isis Toolkit</u>

Wenbing Zhao

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Reliable Distributed Computing with the Isis Toolkit Kenneth P. Birman, Robbert Van Renesse, 1994 In distributed computing systems the software for networks a system may have a huge number of components resulting in a high level of complexity That and issues such as fault tolerance security system management and exploitation of concurrency make the development of complex distributed systems a challenge Reliable Distributed Systems Kenneth Birman, 2006-07-02 An understanding of the techniques used to make distributed computing systems and networks reliable fault tolerant and secure will be crucial to those involved in designing and deploying the next generation of mission critical applications and Web Services Reliable Distributed Systems reviews and describes the key concepts principles and applications of modern distributed computing systems and architectures This self contained book consists of five parts The first covers introductory material including the basic architecture of the Internet simple protocols such as RPC and TCP object oriented architectures operating systems enhancements for high performance and reliability issues The second covers the Web with a focus on Web Services technologies Microsoft's NET and the Java Enterprise Edition The remaining three parts look at a number of reliability and fault tolerance issues and techniques with an emphasis on replication applied in Web Services settings With its well focused approach and clarity of presentation this book is an excellent resource for both advanced students and practitioners in computer science computer networks and distributed systems Anyone seeking to develop a solid grounding in distributed computing and Web Services architectures will find the book an essential and practical learning tool Guide to Reliable Distributed Systems Amy Elser, 2012-01-15 This book describes the key concepts principles and implementation options for creating high assurance cloud computing solutions The guide starts with a broad technical overview and basic introduction to cloud computing looking at the overall architecture of the cloud client systems the modern Internet and cloud computing data centers It then delves into the core challenges of showing how reliability and fault tolerance can be abstracted how the resulting questions can be solved and how the solutions can be leveraged to create a wide range of practical cloud applications The author's style is practical and the guide should be readily understandable without any special background Concrete examples are often drawn from real world settings to illustrate key insights Appendices show how the most important reliability models can be formalized describe the API of the Isis2 platform and offer more than 80 problems at varying levels of difficulty Introduction to Reliable and Secure Distributed Programming Christian Cachin, Rachid Guerraoui, Luís Rodrigues, 2011-02-11 In modern computing a program is usually distributed among several processes The fundamental challenge when developing reliable and secure distributed programs is to support the cooperation of processes required to execute a common task even when some of these processes fail Failures may range from crashes to adversarial attacks by malicious processes Cachin Guerraoui and Rodrigues present an introductory description of fundamental distributed programming abstractions together with algorithms to implement them in distributed systems where

processes are subject to crashes and malicious attacks The authors follow an incremental approach by first introducing basic abstractions in simple distributed environments before moving to more sophisticated abstractions and more challenging environments Each core chapter is devoted to one topic covering reliable broadcast shared memory consensus and extensions of consensus For every topic many exercises and their solutions enhance the understanding This book represents the second edition of Introduction to Reliable Distributed Programming Its scope has been extended to include security against malicious actions by non cooperating processes This important domain has become widely known under the name Byzantine fault tolerance **Distributed Computing** Prasad Jayanti, 2003-07-31 DISC the International Symposium on DIStributed Computing is an annual forum for research presentations on all facets of distributed computing This volume includes 23 contributed papers and an invited lecture all presented at DISC 99 held on September 27 29 1999 in Bratislava Slovak Republic In addition to regular submissions the call for papers for DISC 99 also licited Brief Announcements BAs We received 60 regular submissions and 15 brief announcement submissions These were read and evaluated by the p gramcommittee with the additional help of external reviewerswhen needed At the program committee meeting on June 10 11 at Dartmouth College Hanover USA 23 regular submissions and 4 BAs were selected for presentation at DISC 99 The extended abstracts of these 23 regular papers appear in this volume while the four BAs appear as a special publication of Comenius Univ sity Bratislava the hostof DISC 99 It is expected that the regularpapers will be submitted later in more polished form to fully refereed scientic journals Of the 23 regular papers selected for the conference 12 quali ed for the Best Student Paper award The program committee awarded this honor to the paper entitled Revisiting the Weakest Failure Detector for Uniform Reliable Broadcast by Marcos Aguilera Sam Toueg and Borislav Deianov Marcos and Borislav who are both students share this award Distributed Computing Dahlia Malkhi,2003-06-30 This book constitutes the refereed proceedings of the 16th International Conference on Distributed Computing DISC 2002 held in Toulouse France in October 2002 The 24 revised full papers presented were carefully reviewed and selected from 76 submissions Among the issues addressed are broadcasting secure computation view maintenance communication protocols distributed agreement self stabilizing algorithms message passing systems dynamic networks condition monitoring systems shared memory computing Byzantine processes routing failure detection compare and swap operations cooperative computation and consensus Building Dependable Distributed Systems Wenbing Zhao, 2014-03-06 A one volume guide to the most essential algorithms techniques for designing and building dependable distributed systems Instead of covering a broad range of research works for each dependability strategy this useful reference focuses on only a selected few usually the most seminal works the most practical approaches or the first publication of each approach explaining each in depth usually with a comprehensive set of examples Each technique is dissected thoroughly enough so that readers who are not familiar with dependable distributed computing can actually grasp the technique after studying the book Building Dependable Distributed Systems consists of

eight chapters The first introduces the basic concepts and terminology of dependable distributed computing and also provides an overview of the primary means of achieving dependability Checkpointing and logging mechanisms which are the most commonly used means of achieving limited degree of fault tolerance are described in the second chapter Works on recovery oriented computing focusing on the practical techniques that reduce the fault detection and recovery times for Internet based applications are covered in chapter three Chapter four outlines the replication techniques for data and service fault tolerance This chapter also pays particular attention to optimistic replication and the CAP theorem Chapter five explains a few seminal works on group communication systems Chapter six introduces the distributed consensus problem and covers a number of Paxos family algorithms in depth The Byzantine generals problem and its latest solutions including the seminal Practical Byzantine Fault Tolerance PBFT algorithm and a number of its derivatives are introduced in chapter seven The final chapter details the latest research results surrounding application aware Byzantine fault tolerance which represents an important step forward in the practical use of Byzantine fault tolerance techniques Middleware'98 Nigel Davies, Kerry Raymond, Jochen Seitz, 2012-12-06 Welcome to Middleware 98 and to one of England s most beautiful regions In recent years the distributed systems community has witnessed a growth in the number of conferences leading to difficulties in tracking the literature and a consequent loss of awareness of work done by others in this important field The aim of Middleware 98 is to synthesise many of the smaller workshops and conferences in this area bringing together research communities which were becoming fragmented The conference has been designed to maximise the experience for attendees This is reflected in the choice of a resort venue rather than a big city to ensure a strong focus on interaction with other distributed systems researchers The programme format incorporates a question and answer panel in each session enabling significant issues to be discussed in the context of related papers and presentations The invited speakers and tutorials are intended to not only inform the attendees but also to stimulate discussion and debate **Distributed Algorithms** Jean-Michel Helary, Michel Raynal, 1995-08-30 This book constitutes the proceedings of the 9th International Workshop on Distributed Algorithms WDAG 95 held in Le Mont Saint Michel France in September 1995 Besides four invited contributions 18 full revised research papers are presented selected from a total of 48 submissions during a careful refereeing process The papers document the progress achieved in the area since the predecessor workshop LNCS 857 they are organized in sections on asynchronous systems networks shared memory Byzantine failures self stabilization and detection of properties **Fundamentals of Distributed Object Systems** Zahir Tari, Omran Bukhres, 2004-04-07 Distributed Object Computing teaches readers the fundamentals of CORBA the leading architecture for design of software used in parallel and distributed computing applications Since CORBA is based on open standards it is the only effective way to learn object oriented programming for distributed systems This language independent book allows material to be taught using Java C or other Object Oriented Programming Languages

Advances in Distributed Systems Sacha Krakowiak, Santosh Shrivastava, 2003-06-26 In 1992 we initiated a research

project on large scale distributed computing systems LSDCS It was a collaborative project involving research institutes and universities in Bologna Grenoble Lausanne Lisbon Rennes Rocquencourt Newcastle and Twente The World Wide Web had recently been developed at CERN but its use was not yet as common place as it is today and graphical browsers had yet to be developed It was clear to us and to just about everyone else that LSDCS comprising several thousands to millions of individual computer systems nodes would be coming into existence as a consequence both of technological advances and the demands placed by applications We were excited about the problems of building large distributed systems and felt that serious rethinking of many of the existing computational paradigms algorithms and structuring principles for distributed computing was called for In our research proposal we summarized the problem domain as follows We expect LSDCS to exhibit great diversity of node and communications capability Nodes will range from mobile laptop computers workstations to supercomputers Whereas mobile computers may well have unreliable low bandwidth communications to the rest of the system other parts of the system may well possess high bandwidth communications capability To appreciate the problems posed by the sheer scale of a system comprising thousands of nodes we observe that such systems will be rarely functioning in their entirety Dependable Computing - EDCC 2005 Mario Dal Cin, Mohamed Kaâniche, András Pataricza, 2005-03-31 It is always a special honor to chair the European Dependable Computing C ference EDCC EDCC has become one of the well established conferences in the eld of dependability in the European research area Budapest was selected as the host of this conference due to its traditions in organizing international scienti c events and its traditional role of serving as a meeting point between East and West EDCC 5 was the fth in the series of these high quality scienti c conf ences In addition to the overall signi cance of such a pan European event this year s conference was a special one due to historic reasons The roots of EDCC date back to the moment when the Iron Curtain fell Originally two groups of scientists from di erent European countries in Western and Eastern Europe who were active in research and education related to dependability created a joint forum in order to merge their communities as early as in 1989 This trend has continued up to today This year s conference was the rst one where the overwhelming majority of the research groups belong to the family of European nations united in the European Union During the past 16 years we observed that the same roots in all the professional cultural and scientic senses led to a seamless integration of these research communities previously separated ar cially for a long time EDCC has become one of the main European platforms to exchange new searchideasinthe eldofdependability **Encyclopedia of** Information Science and Technology, First Edition Khosrow-Pour, D.B.A., Mehdi, 2005-01-31 Comprehensive coverage of critical issues related to information science and technology **Cooperative Task-Oriented Computing Chryssis** Georgiou, Alexander Shvartsman, 2011-08-08 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

Databases, Information Systems, and Peer-to-Peer Computing Gianluca Moro, Sonia Bergamaschi, Sam Joseph, Jean-Henry Morin, Aris M. Ouksel, 2007-05-30 This book constitutes the thoroughly refereed postproceedings of the 3rd and 4th International Workshop on Databases Information Systems and Peer to Peer Computing DBISP2P 2005 and DBISP2P 2006 held in Trondheim Norway in August 2005 and in Seoul Korea in September 2006 as satellite events of VLDB the International Conference on Very Large Data Bases Vector and Parallel Processing - VECPAR 2000 Jose M.L.M. Palma, Jack Dongarra, Vicente Hernandez, 2003-06-29 This book is the nal outcome of VECPAR 2000 4th International Meeting on Vector and Parallel Processing VECPAR constitutes a series of conferences which have been organized by the Faculty of Engineering of the University of Porto since 1993 with the main objective of disseminating new knowledge on parallel computing Readership of This Book The book is aimed at an audience of researchers and graduate students in a broad range of scienti c areas including not only computer science but also applied mathematics and numerical analysis physics and engineering Book Plan From a total of 66 papers selected on the basis of extended abstracts for p sentation at the conference a subset of 34 papers were chosen during a second review process leading to their inclusion in the book together with the invited talks The book contains a total of 40 papers organized into 6 chapters where each may appeal to people in di erent but still related scienti c areas All ch ters with the exception of Chapter 6 are initiated by a short text providing a quick overview of the organization and papers in the chapter The 13 papers in Chapter 1 cover the aspects related to the use of multiple processors Operating systems languages and software tools for scheduling and code transformation are the topics

included in this chapter initiated by the talk on computing over the Internet entitled Grid Computing byIan Foster

Theory and Practice in Distributed Systems Kenneth P. Birman, Friedemann Mattern, Andre Schiper, 1995-07-14 This book summarizes the current knowledge on a cascade of gene regulation levels which operate in the cytoplasm of eukaryotic cells and which has until recently been poorly understood While transcriptional control of eukaryotic genes has been extensively researched and the understanding of this process has reached very sophisticated levels post transcriptional control has received much less attention As the contributions in this book demonstrate not only is post transcriptional control in eukaryotes better understood it is now thought to be a major player in gene expression control in a number of key processes i e control of cell proliferation gametogenesis and early development or cellular homeostasis Theorem Proving in Higher Order Logics Richard J. Boulton, Paul B. Jackson, 2003-06-30 This volume constitutes the proceedings of the 14th International Conference on Theorem Proving in Higher Order Logics TPHOLs 2001 held 3 6 September 2001 in Edinburgh Scotland TPHOLs covers all aspects of theorem proving in higher order logics as well as related topics in theorem proving and veri cation TPHOLs 2001 was collocated with the 11th Advanced Research Working Conference on Correct Hardware Design and Veri cation Methods CHARME 2001 This was held 4 7 September 2001 in nearby Livingston Scotland at the Institute for System Level Integration and a joint half day session of talks was arranged for the 5th September in Edinburgh An excursion to Traquair House and a banquet in the Playfair Library of Old College University of Edinburgh were also jointly organized The proceedings of CHARME 2001 have been p lished as volume 2144 of Springer Verlag s Lecture Notes in Computer Science series with Tiziana Margaria and Tom Melham as editors Each of the 47 papers submitted in the full research category was referred by at least 3 reviewers who were selected by the Program Committee Of these submissions 23 were accepted for presentation at the conference and publication in this volume In keeping with tradition TPHOLs 2001 also o ered a venue for the presentation of work in progress where researchers invite discussion by means of a brief preliminary talk and then discuss their work at a poster session A supplementary proceedings containing associated papers for work in progress was published by the Division of Informatics at the University of Edinburgh **Encyclopedia of** Information Science and Technology, Second Edition Khosrow-Pour, D.B.A., Mehdi, 2008-10-31 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher From Traditional Fault Tolerance to Blockchain Wenbing Zhao, 2021-04-28 This book covers the most essential techniques for designing and building dependable distributed systems from traditional fault tolerance to the blockchain technology Topics include checkpointing and logging recovery orientated computing replication distributed consensus Byzantine fault tolerance as well as blockchain This book intentionally includes traditional fault tolerance techniques so that readers can appreciate better the huge benefits brought by the blockchain technology and why it has been touted as a disruptive technology some even regard it at the same level of the Internet This book also expresses a

grave concern on using traditional consensus algorithms in blockchain because with the limited scalability of such algorithms the primary benefits of using blockchain in the first place such as decentralization and immutability could be easily lost under cyberattacks

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