Introduction To Reliable Distributed Programming

Guide to Reliable Distributed SystemsIntroduction to Reliable and Secure Distributed ProgrammingGuide to Reliable Distributed SystemsIntroduction to Reliable Distributed ProgrammingReliable Distributed SystemsReliable Distributed SystemsA designers' guide to reliable distributed systemsReliable Distributed SystemsReliable Distributed SystemsA Designers' Guide to Reliable Distributed SystemsA Designers' Guide to Reliable Distributed SystemsThe Process Group Approach to Reliable Distributed ComputingThe Process Group Approach to Reliable Distributed Computing. RevisionThe Process Group Approach to Reliable Distributed ComputingReliable Distributed Computing with the Isis ToolkitDesigning Reliable Distributed SystemsReliable Distributed SystemsIEEE ... Symposium on Reliable Distributed SystemsProtocol Objects and Patterns for Structuring Reliable Distributed SystemsMaking Reliable Distributed Systems in the Presence of Software Errors Kenneth P Birman Christian Cachin Amy Elser Rachid Guerraoui Amy Elser Amy Elser A. Tripathi Kenneth P. Birman Rome Air Development Center National Aeronautics and Space Adm Nasa Kenneth P. Birman Peter Csaba Ölveczky Shambhu Upadhyaya Benoît Garbinato

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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

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

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explains fault tolerance in clear terms with concrete examples drawn from real world settings highly practical focus aimed at building mission critical networked applications that remain secure

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the difficulty of developing reliable distributed software is an impediment to applying distributed computing technology in many settings experience with the isis system suggests that a structured approach based on virtually synchronous process groups yields systems which are substantially easier to develop fault tolerance and self managing six years of research on isis are reviewed describing the model the types of applications to which isis was applied and some of the reasoning that underlies a recent effort to redesign and reimplement isis as a much smaller lightweight system birman kenneth p unspecified center nag2 593

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systems that are substantially easier to develop exploit sophisticated forms of cooperative computation and achieve high reliability this paper reviews six years of on isis describing the model its implementation challenges and the types of applications to which isis has been applied

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

this classroom tested textbook provides an accessible introduction to the design formal modeling and analysis of distributed computer systems the book uses maude a rewriting logic based language and simulation and model checking tool which offers a simple and intuitive modeling formalism that is suitable for modeling distributed systems in an attractive object oriented and functional programming style topics and features introduces classical algebraic specification and term rewriting theory including reasoning about termination confluence and equational properties covers object oriented modeling of distributed systems using rewriting logic as well as temporal logic to specify requirements that a system should satisfy provides a range of examples and case studies from different domains to help the reader to develop an intuitive understanding of distributed systems and their design challenges examples include classic distributed systems such as transport protocols cryptographic protocols and distributed transactions leader election and mutual execution algorithms contains a wealth of exercises including larger exercises suitable for course projects and supplies executable code and supplementary material at an associated website this self contained textbook is designed to support undergraduate courses on formal methods and distributed systems and will prove invaluable to any student seeking a reader friendly introduction to formal specification logics and inference systems and automated model checking techniques

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