Fault Tolerance

Web Application

Web Servers

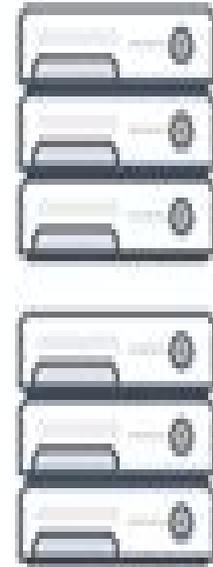**Load Balancer**

Standby Web Server

Tutorial Fault Tolerant Computing Eh0254 3

Michael Butler,Cliff B. Jones,Alexander Romanovsky,Elena Troubitsyna

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   Tutorial Victor Peter Nelson,Bill D. Carroll,1987-01-01 Published by IEEE Computer Society Press   **Tutorial** Bill D. Carroll,1987   *Index to IEEE Publications* Institute of Electrical and Electronics Engineers,1988 Issues for 1973 cover the entire IEEE technical literature   **Index of Conference Proceedings Received** British Library. Document Supply Centre,1987   Fault Tolerance Peter A. Lee,Thomas Anderson,2012-12-06 The production of a new version of any book is a daunting task as many authors will recognise In the field of computer science the task is made even more daunting by the speed with which the subject and its supporting technology move forward Since the publication of the first edition of this book in 1981 much research has been conducted and many papers have been written on the subject of fault tolerance Our aim then was to present for the first time the principles of fault tolerance together with current practice to illustrate those principles We believe that the principles have so far stood the test of time and are as appropriate today as they were in 1981 Much work on the practical applications of fault tolerance has been undertaken and techniques have been developed for ever more complex situations such as those required for distributed systems Nevertheless the basic principles remain the same

   Hardware and Software Fault Tolerance in Parallel Computing Systems Dimitri Ranguelov Avresky,1992   *The Evolution of Fault-Tolerant Computing* A. Avizienis,H. Kopetz,J.C. Laprie,2012-12-06 For the editors of this book as well as for many other researchers in the area of fault tolerant computing Dr William Caswell Carter is one of the key figures in the formation and development of this important field We felt that the IFIP Working Group 10 4 at Baden Austria in June 1986 which coincided with an important step in Bill s career was an appropriate occasion to honor Bill s contributions and achievements by organizing a one day Symposium on the Evolution of Fault Tolerant Computing in the honor of William C Carter The Symposium held on June 30 1986 brought together a group of eminent scientists from all over the world to discuss the evolu tion the state of the art and the future perspectives of the field of fault tolerant computing Historic developments in academia and industry were presented by individuals who themselves have actively been involved in bringing them about The Symposium proved to be a unique historic event and these Proceedings which contain the final versions of the papers presented at Baden are an authentic reference document   **Fault Tolerant Computer Architecture** Daniel Sorin,2009-07-08 For many years most computer architects have pursued one primary goal performance Architects have translated the ever increasing abundance of ever faster transistors provided by Moore s law into remarkable increases in performance Recently however the bounty provided by Moore s law has been accompanied by several challenges that have arisen as devices have become smaller including a decrease in dependability due to physical faults In this book we focus on the dependability challenge and the fault tolerance solutions that architects are developing to overcome it The two main purposes of this book are to explore the key ideas in fault tolerant computer architecture and to present the current state of the art over approximately the past 10 years in academia and industry Table of Contents

Introduction Error Detection Error Recovery Diagnosis Self Repair The Future __Fault-Tolerance Techniques for High-Performance Computing__ Thomas Herault,Yves Robert,2015-07-01 This timely text presents a comprehensive overview of fault tolerance techniques for high performance computing HPC The text opens with a detailed introduction to the concepts of checkpoint protocols and scheduling algorithms prediction replication silent error detection and correction together with some application specific techniques such as ABFT Emphasis is placed on analytical performance models This is then followed by a review of general purpose techniques including several checkpoint and rollback recovery protocols Relevant execution scenarios are also evaluated and compared through quantitative models Features provides a survey of resilience methods and performance models examines the various sources for errors and faults in large scale systems reviews the spectrum of techniques that can be applied to design a fault tolerant MPI investigates different approaches to replication discusses the challenge of energy consumption of fault tolerance methods in extreme scale systems __Fault Tolerant Computing__ Dhiraj K. Pradhan,1993-01-01 *Fault-tolerant Computing* Dhiraj K. Pradhan,1986 Fault tolerant computing has evolved into a broad discipline one that encompasses all aspects of reliable computer design Diverse areas of fault tolerant study range from failure mechanisms in integrated circuits to the design of robust software Fault tolerant computing is driven by a number of key factors including ultra high reliability reduced life cycle costs and long life applications This book is intended to be both introductory and suitable for advanced level graduates Chapters can be selected in various combinations to provide courses with different orientations **Software Fault Tolerance** Michael R. Lyu,1995-05-09 Software fault tolerance techniques involve error detection exception handling monitoring mechanisms and error recovery This issue of Trends in Software focuses on identification formulation application and evaluation of current software fault tolerance techniques **Fault-tolerant Computing Systems** Fevzi Belli,W. Görke,1987 **Fault-tolerant Computing** ,1995 *Fault-Tolerance Techniques for Spacecraft Control Computers* Mengfei Yang,Gengxin Hua,Yanjun Feng,Jian Gong,2017-01-23 Comprehensive coverage of all aspects of space application oriented fault tolerance techniques Experienced expert author working on fault tolerance for Chinese space program for almost three decades Initiatively provides a systematic texts for the cutting edge fault tolerance techniques in spacecraft control computer with emphasis on practical engineering knowledge Presents fundamental and advanced theories and technologies in a logical and easy to understand manner Beneficial to readers inside and outside the area of space applications **Methods, Models and Tools for Fault Tolerance** Michael Butler,Cliff B. Jones,Alexander Romanovsky,Elena Troubitsyna,2009-03-03 The growing complexity of modern software systems increases the di culty of ensuring the overall dependability of software intensive systems Complexity of environments in which systems operate high dependability requirements that systems have to meet as well as the complexity of infrastructures on which they rely make system design a true engineering challenge Mastering system complexity requires design techniques that support clear thinking and rigorous validation and veri cation Formal

design methods help to achieve this Coping with complexity also requires architectures that are t erant of faults and of unpredictable changes in environment This issue can be addressed by fault tolerant design techniques Therefore there is a clear need of methods enabling rigorous modelling and development of complex fault tolerant systems This bookaddressessuchacuteissues indevelopingfault tolerantsystemsas Veri cation and re nement of fault tolerant systems Integrated approaches to developing fault tolerant systems Formal foundations for error detection error recovery exception and fault handling Abstractions styles and patterns for rigorousdevelopment of fault tolerance Fault tolerant software architectures Development and application of tools supporting rigorous design of depe able systems Integrated platforms for developing dependable systems Rigorous approaches to speci cation and design of fault tolerance in novel computing systems TheeditorsofthisbookwereinvolvedintheEU FP 6 projectRODIN R orous Open Development Environment for Complex Systems which brought together researchers from the fault tolerance and formal methods communi 1 ties In 2007 RODIN organized the MeMoT workshop held in conjunction with the Integrated Formal Methods 2007 Conference at Oxford University   Hardware and Software Architectures for Fault Tolerance Michel Banâtre,P. A. Lee,1994 Fault tolerance has been an active research area for many years This volume presents papers from a workshop held in 1993 where a small number of key researchers and practitioners in the area met to discuss the experiences of industrial practitioners to provide a perspective on the state of the art of fault tolerance research to determine whether the subject is becoming mature and to learn from the experiences so far in order to identify what might be important research topics for the coming years The workshop provided a more intimate environment for discussions and presentations than usual at conferences The papers in the volume were presented at the workshop then updated and revised to reflect what was learned at the workshop

   Dependable Computing for Critical Applications 2 J. F. Meyer,Richard Dale Schlichting,1992 This volume contains the papers presented at the Second International Work ing Conference on Dependable Computing for Critical Applications sponsored by IFIP Working Group lOA and held in Tucson Arizona on February 18 20 1991 In keeping with the first such conference on this topic which took place at the University of California Santa Barbara in 1989 this meeting was like wise concerned with an important basic question Can we rely on Computers In more precise terms it addressed various aspects of computer system de pendability a broad concept defined as th e trustworthiness of computer service such that reliance can justifiably be placed on this service Given that this term includes attributes such as reliability availability safety and security it is our hope that these papers will contribute to further integration of these ideas in the context of critical applications The program consisted of 20 papers and three panel sessions The papers were selected from a total of 61 submissions at a November 1990 meeting of the Program Committee in Ann Arbor Michigan We were very fortunate to have a broad spectrum of interests represented with papers in the final program coming from seven different countries representing work at universities corporations and government agencies The process was greatly facilitated by the diligent work of the Program

Committee and the quality of reviews provided by outside referees In addition to the paper presentations there were three panel sessions or ganized to examine particular topics in detail **Software Fault Tolerance: A Tutorial** ,2000

Dependable Computing for Critical Applications Algirdas Avizienis,Jean-Claude Laprie,2012-12-06 The International Working Conference on Dependable Computing for Critical Applications was the first conference organized by IFIP Working Group 10 4 Dependable Computing and Fault Tolerance in cooperation with the Technical Committee on Fault Tolerant Computing of the IEEE Computer Society and the Technical Committee 7 on Systems Reliability Safety and Security of EWlCS The rationale for the Working Conference is best expressed by the aims of WG 10 4 Increasingly individuals and organizations are developing or procuring sophisticated computing systems on whose services they need to place great reliance In differing circumstances the focus will be on differing properties of such services e g continuity performance real time response ability to avoid catastrophic failures prevention of deliberate privacy intrusions The notion of dependability defined as that property of a computing system which allows reliance to be justifiably placed on the service it delivers enables these various concerns to be subsumed within a single conceptual framework Dependability thus includes as special cases such attributes as reliability availability safety security The Working Group is aimed at identifying and integrating approaches methods and techniques for specifying designing building assessing validating operating and maintaining computer systems which should exhibit some or all of these attributes The concept of WG 10 4 was formulated during the IFIP Working Conference on Reliable Computing and Fault Tolerance on September 27 29 1979 in London England held in conjunction with the Europ IFIP 79 Conference Profs A Avi ienis UCLA Los Angeles USA and A

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