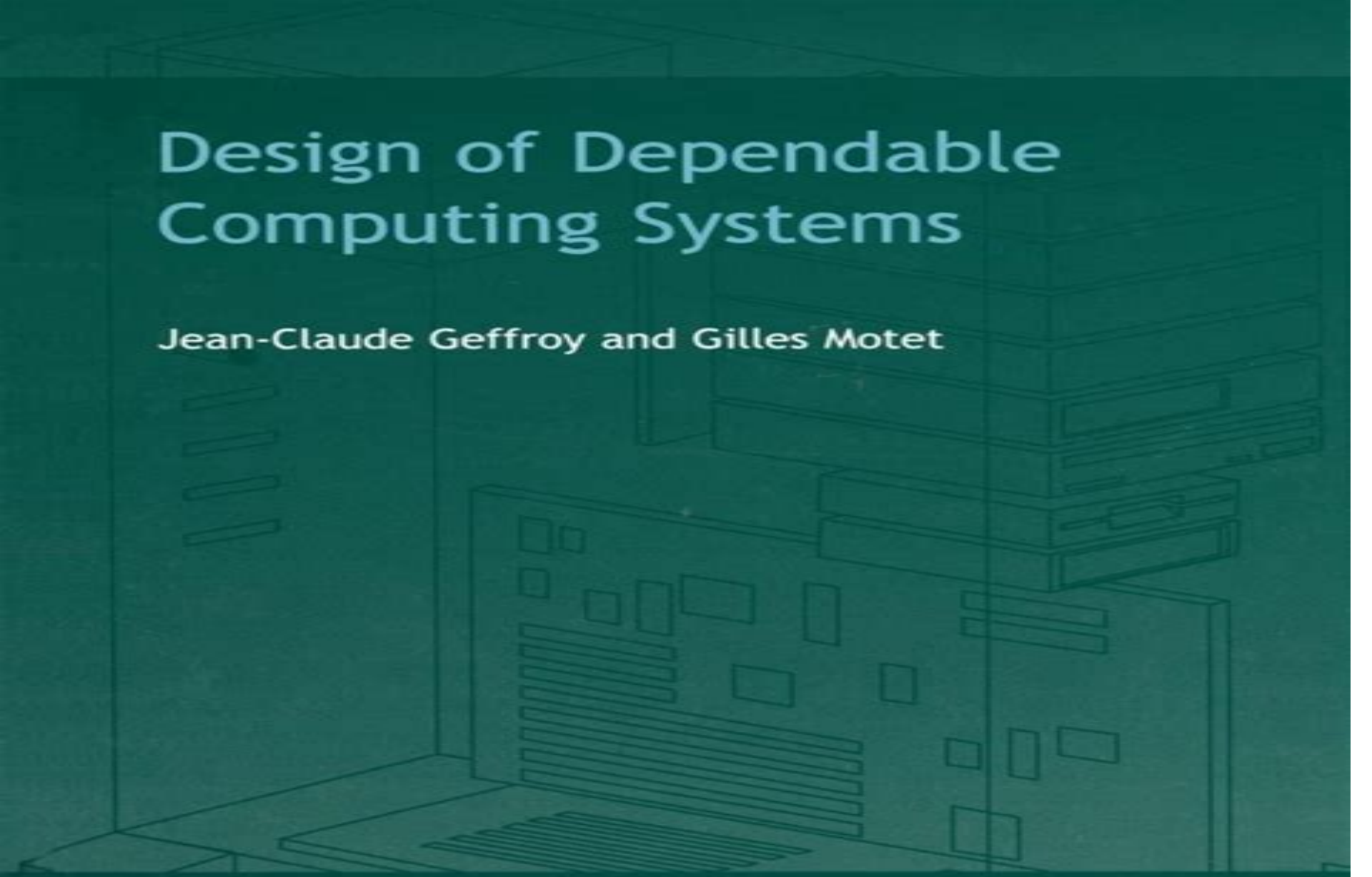
Design of Dependable Computing Systems

Jean-Claude Geffroy and Gilles Motet



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Design Of Dependable Computing Systems

J.C. Geffroy,G. Motet

Design Of Dependable Computing Systems:

Design of Dependable Computing Systems J.C. Geffroy,G. Motet,2013-03-09 This book analyzes the causes of failures in computing systems their consequences as weIl as the existing solutions to manage them The domain is tackled in a progressive and educational manner with two objectives 1 The mastering of the basics of dependability domain at system level that is to say independently ofthe technology used hardware or software and of the domain of application 2 The understanding of the fundamental techniques available to prevent to remove to tolerate and to forecast faults in hardware and software technologies The first objective leads to the presentation of the general problem the fault models and degradation mechanisms wh ich are at the origin of the failures and finally the methods and techniques which permit the faults to be prevented removed or tolerated This study concerns logical systems in general independently of the hardware and software technologies put in place This knowledge is indispensable for two reasons A large part of a product s development is independent of the technological means expression of requirements specification and most of the design stage Very often the development team does not possess this basic knowledge hence the dependability requirements are considered uniquely during the technological implementation Such an approach is expensive and inefficient Indeed the removal of a preliminary design fault can be very difficult if possible if this fault is detected during the product s final testing

Design of Dependable Computing Systems J. C. Geffroy,Gilles Motet,2014-01-15 *Dependable Computing Systems* Hassan B. Diab,Albert Y. Zomaya,2005-10-05 A team of recognized experts leads the way to dependable computing systems With computers and networks pervading every aspect of daily life there is an ever growing demand for dependability In this unique resource researchers and organizations will find the tools needed to identify and engage state of the art approaches used for the specification design and assessment of dependable computer systems The first part of the book addresses models and paradigms of dependable computing and the second part deals with enabling technologies and applications Tough issues in creating dependable computing systems are also tackled including Verification techniques Model based evaluation Adjudication and data fusion Robust communications primitives Fault tolerance Middleware Grid security Dependability in IBM mainframes Embedded software Real time systems Each chapter of this contributed work has been authored by a recognized expert This is an excellent textbook for graduate and advanced undergraduate students in electrical engineering computer engineering and computer science as well as a must have reference that will help engineers programmers and technologists develop systems that are secure and reliable *Dependable Computing* Ravishankar K. Iyer,Zbigniew T. Kalbarczyk,Nithin M. Nakka,2024-05-14 Dependable Computing Covering dependability from software and hardware perspectives Dependable Computing Design and Assessment looks at both the software and hardware aspects of dependability This book Provides an in depth examination of dependability fault tolerance topics Describes dependability taxonomy and briefly contrasts classical techniques with their modern counterparts or extensions Walks up the system stack

from the hardware logic via operating systems up to software applications with respect to how they are hardened for dependability Describes the use of measurement based analysis of computing systems Illustrates technology through real life applications Discusses security attacks and unique dependability requirements for emerging applications e g smart electric power grids and cloud computing Finally using critical societal applications such as autonomous vehicles large scale clouds and engineering solutions for healthcare the book illustrates the emerging challenges faced in making artificial intelligence AI and its applications dependable and trustworthy This book is suitable for those studying in the fields of computer engineering and computer science Professionals who are working within the new reality to ensure dependable computing will find helpful information to support their efforts With the support of practical case studies and use cases from both academia and real world deployments the book provides a journey of developments that include the impact of artificial intelligence and machine learning on this ever growing field This book offers a single compendium that spans the myriad areas in which dependability has been applied providing theoretical concepts and applied knowledge with content that will excite a beginner and rigor that will satisfy an expert Accompanying the book is an online repository of problem sets and solutions as well as slides for instructors that span the chapters of the book **Predictably Dependable Computing Systems** Brian Randell,Jean-Claude Laprie,Hermann Kopetz,Bev Littlewood,2013-11-11 *Workshop A. Digital Systems Design. Workshop B. Dependable Computing Systems* European Association for Microprocessing and Microprogramming,EUROMICRO,1998

Foundations of Dependable Computing Gary M. Koob,Clifford G. Lau,2013-04-17 Foundations of Dependable Computing System Implementation explores the system infrastructure needed to support the various paradigms of Paradigms for Dependable Applications Approaches to implementing support mechanisms and to incorporating additional appropriate levels of fault detection and fault tolerance at the processor network and operating system level are presented A primary concern at these levels is balancing cost and performance against coverage and overall dependability As these chapters demonstrate low overhead practical solutions are attainable and not necessarily incompatible with performance considerations The section on innovative compiler support in particular demonstrates how the benefits of application specificity may be obtained while reducing hardware cost and run time overhead A companion to this volume published by Kluwer subtitled Models and Frameworks for Dependable Systems presents two comprehensive frameworks for reasoning about system dependability thereby establishing a context for understanding the roles played by specific approaches presented in this book s two companion volumes It then explores the range of models and analysis methods necessary to design validate and analyze dependable systems Another companion to this book published by Kluwer subtitled Paradigms for Dependable Applications presents a variety of specific approaches to achieving dependability at the application level Driven by the higher level fault models of Models and Frameworks for Dependable Systems and built on the lower level abstractions implemented in a third companion book subtitled System Implementation these approaches demonstrate how dependability may be tuned to the

requirements of an application the fault environment and the characteristics of the target platform Three classes of paradigms are considered protocol based paradigms for distributed applications algorithm based paradigms for parallel applications and approaches to exploiting application semantics in embedded real time control systems *Foundations of Dependable Computing* Gary M. Koob,Clifford G. Lau,2007-11-23 Foundations of Dependable Computing Paradigms for Dependable Applications presents a variety of specific approaches to achieving dependability at the application level Driven by the higher level fault models of Models and Frameworks for Dependable Systems and built on the lower level abstractions implemented in a third companion book subtitled System Implementation these approaches demonstrate how dependability may be tuned to the requirements of an application the fault environment and the characteristics of the target platform Three classes of paradigms are considered protocol based paradigms for distributed applications algorithm based paradigms for parallel applications and approaches to exploiting application semantics in embedded real time control systems The companion volume subtitled Models and Frameworks for Dependable Systems presents two comprehensive frameworks for reasoning about system dependability thereby establishing a context for understanding the roles played by specific approaches presented in this book s two companion volumes It then explores the range of models and analysis methods necessary to design validate and analyze dependable systems Another companion book published by Kluwer subtitled System Implementation explores the system infrastructure needed to support the various paradigms of Paradigms for Dependable Applications Approaches to implementing support mechanisms and to incorporating additional appropriate levels of fault detection and fault tolerance at the processor network and operating system level are presented A primary concern at these levels is balancing cost and performance against coverage and overall dependability As these chapters demonstrate low overhead practical solutions are attainable and not necessarily incompatible with performance considerations The section on innovative compiler support in particular demonstrates how the benefits of application specificity may be obtained while reducing hardware cost and run time overhead *Physical Fault Injection for Validation of Dependable Computing Systems and a Fault-tolerant Computer Design for Safety Critical Missions* Ulf Gunneflo,Chalmers University of Technology. School of Electrical and Computer Engineering,Chalmers tekniska högskola. Sektionen för Elektro- och Datorteknik,1990

Fault-Tolerant Systems Israel Koren,C. Mani Krishna,2020-09-01 Fault Tolerant Systems Second Edition is the first book on fault tolerance design utilizing a systems approach to both hardware and software No other text takes this approach or offers the comprehensive and up to date treatment that Koren and Krishna provide The book comprehensively covers the design of fault tolerant hardware and software use of fault tolerance techniques to improve manufacturing yields and design and analysis of networks Incorporating case studies that highlight more than ten different computer systems with fault tolerance techniques implemented in their design the book includes critical material on methods to protect against threats to encryption subsystems used for security purposes The text s updated content will help students and practitioners in electrical

and computer engineering and computer science learn how to design reliable computing systems and how to analyze fault tolerant computing systems Delivers the first book on fault tolerance design with a systems approach Offers comprehensive coverage of both hardware and software fault tolerance as well as information and time redundancy Features fully updated content plus new chapters on failure mechanisms and fault tolerance in cyber physical systems Provides a complete ancillary package including an on line solutions manual for instructors and PowerPoint slides Computer Vision Systems James Crowley,Justus Piater,Markus Vincze,Lucas Paletta,2003-07-01 This book constitutes the refereed proceedings of the Third International Conference on Computer Vision Systems ICVS 2003 held in Graz Austria in April 2003 The 51 revised full papers presented were carefully reviewed and selected from 109 submissions The papers are organized in topical sections on cognitive vision philosophical issues in cognitive vision cognitive vision and applications computer vision architectures performance evaluation implementation methods architecture and classical computer vision and video annotation

Foundations of Dependable Computing Gary M. Koob,Clifford G. Lau,2007-07-23 Foundations of Dependable Computing Models and Frameworks for Dependable Systems presents two comprehensive frameworks for reasoning about system dependability thereby establishing a context for understanding the roles played by specific approaches presented in this book s two companion volumes It then explores the range of models and analysis methods necessary to design validate and analyze dependable systems A companion to this book published by Kluwer subtitled Paradigms for Dependable Applications presents a variety of specific approaches to achieving dependability at the application level Driven by the higher level fault models of Models and Frameworks for Dependable Systems and built on the lower level abstractions implemented in a third companion book subtitled System Implementation these approaches demonstrate how dependability may be tuned to the requirements of an application the fault environment and the characteristics of the target platform Three classes of paradigms are considered protocol based paradigms for distributed applications algorithm based paradigms for parallel applications and approaches to exploiting application semantics in embedded real time control systems Another companion book published by Kluwer subtitled System Implementation explores the system infrastructure needed to support the various paradigms of Paradigms for Dependable Applications Approaches to implementing support mechanisms and to incorporating additional appropriate levels of fault detection and fault tolerance at the processor network and operating system level are presented A primary concern at these levels is balancing cost and performance against coverage and overall dependability As these chapters demonstrate low overhead practical solutions are attainable and not necessarily incompatible with performance considerations The section on innovative compiler support in particular demonstrates how the benefits of application specificity may be obtained while reducing hardware cost and run time overhead *Fundamentals of Dependable Computing for Software Engineers* John Knight,2012-01-12 Fundamentals of Dependable Computing for Software Engineers presents the essential elements of computer system dependability The book describes a comprehensive dependability

engineering process and explains the roles of software and software engineers in computer system dependability Readers will learn Why dependability matters What it means for a system to be dependable How to build a dependable software system How to assess whether a software system is adequately dependable The author focuses on the actions needed to reduce the rate of failure to an acceptable level covering material essential for engineers developing systems with extreme consequences of failure such as safety critical systems security critical systems and critical infrastructure systems The text explores the systems engineering aspects of dependability and provides a framework for engineers to reason and make decisions about software and its dependability It also offers a comprehensive approach to achieve software dependability and includes a bibliography of the most relevant literature Emphasizing the software engineering elements of dependability this book helps software and computer engineers in fields requiring ultra high levels of dependability such as avionics medical devices automotive electronics weapon systems and advanced information systems construct software systems that are dependable and within budget and time constraints *Hard Real-Time Computing Systems* Giorgio C Buttazzo,2007-08-19 Real time computing plays a crucial role in our society since an increasing num ber of complex systems rely in part or completely on processor control Ex amples of applications that require real time computing include nuclear power plants railway switching systems automotive electronics air traffic control telecommunications robotics and military systems In spite of this large application domain most of the current real time systems are still designed and implemented using low level programming and empirical techniques without the support of a scientific methodology This approach results in a lack of reliability which in critical applications may cause serious environmental damage or even loss of life This book is a basic treatise on real time computing with particular emphasis on predictable scheduling algorithms The main objectives of the book are to introduce the basic concepts of real time computing illustrate the most sig nificant results in the field and provide the basic methodologies for designing predictable computing systems useful in supporting critical control applica tions The book is written for instructional use and is organized to enable readers without a strong knowledge of the subject matter to quickly grasp the material Technical concepts are clearly defined at the beginning of each chapter and algorithm descriptions are reinforced through concrete examples illustrations and tables *Fehlertolerierende Rechensysteme / Fault-tolerant Computing Systems* Winfried Görke,Holger Sörensen,2012-12-06 Dieses Buch enth lt die Beitr ge der 4 GI ITG GMA Fachtagung ber Fehlertolerierende Rechensysteme die im September 1989 in einer Reihe von Tagungen in M nchen 1982 Bonn 1984 sowie Bremerhaven 1987 veranstaltet wurde Die 31 Beitr ge darunter 4 eingeladene sind teils in deutscher berwiegend aber in englischer Sprache verfa t Insgesamt wird durch diese Beitr ge die Entwicklung der Konzeption und Implementierung fehlertoleranter Systeme in den letzten zwei Jahren vor allem in Europa dokumentiert S mtliche Beitr ge berichten ber neue Forschungs oder Entwicklungsergebnisse *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 **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

Proceedings EUROMICRO (24, 1998, Västerås),1998 *Verified Software: Theories, Tools, Experiments* Bertrand Meyer,James Woodcock,2008-07-07 A Step Towards Verified Software Worries about the reliability of software are as old as software itself techniques for allaying these worries predate even James King s 1969 thesis on A program verifier What gives the whole topic a new urgency is the conjunction of three phenomena the blitz like spread of software rich systems to control ever more facets of our world and our lives our growing impatience with deficiencies and the development proceeding more slowly alas than the other two trends of techniques to ensure and verify software quality In 2002 Tony Hoare one of the most distinguished contributors to these advances over the past four decades came to the conclusion that piecemeal efforts are no

longer sufficient and proposed a Grand Challenge intended to achieve over 15 years the production of a verifying compiler a tool that while processing programs would also guarantee their adherence to specified properties of correctness robustness safety security and other desirable properties As Hoare sees it this endeavor is not a mere research project as might normally be carried out by one team or a small consortium of teams but a momentous endeavor comparable in its scope to the successful mission to send a man to the moon or to the sequencing of the human genome **Proceedings** Euromicro. Conference,1998

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