Design of Dependable Computing Systems

Jean-Claude Geffroy and Gilles Motet

Design Of Dependable Computing Systems

Werner Grass

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 well 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,2024-04-18 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 **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   *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

   Fault-Tolerant Systems Israel Koren,C. Mani Krishna,2010-07-19 Fault Tolerant Systems is the first book on fault tolerance design with a systems approach to both hardware and software No other text on the market takes this approach nor offers the comprehensive and up to date treatment that Koren and Krishna provide This book incorporates case studies that highlight six different computer systems with fault tolerance techniques implemented in their design A complete ancillary package is available to lecturers including online solutions manual for instructors and PowerPoint slides Students designers and architects of high performance processors will value this comprehensive overview of the field The first book on fault tolerance design with a systems approach Comprehensive coverage of both hardware and software fault tolerance as well as information and time redundancy Incorporated case studies highlight six different computer systems with fault tolerance techniques implemented in their design Available to lecturers is a complete ancillary package including online 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   **Architecture of Computing Systems - ARCS 2006** Werner Grass,2006 This book constitutes the refereed proceedings of the 19th International Conference on Architecture of Computing Systems ARCS 2006 held in March 2006 The 32 revised full papers presented together with two invited and keynote papers were carefully reviewed and selected from 174 submissions The papers are organized in topical sections on pervasive computing memory systems architectures multiprocessing energy efficient design power awareness network protocols security and distributed networks   Model Driven Engineering Languages and Systems Lionel Briand,2005-09-19 This book constitutes the refereed proceedings of the 8th International Conference on Model Driven Engineering Languages and Systems formerly the UML series of conferences MoDELS 2005 held in Montego Bay Jamaica in October 2005 The 52 revised full papers and 2 keynote abstracts presented were carefully reviewed and selected from an initial submission of 215 abstracts and 166 papers The papers are organized in topical sections on process modelling product families and reuse state behavioral modeling aspects design strategies model transformations model refactoring quality control MDA automation UML 2 0 industrial experience crosscutting concerns modeling strategies as well as a recapitulatory section on workshops tutorials and panels   Foundations of Dependable Computing Gary M.

Koob,Clifford G. Lau,2013-05-17 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 **Software-Implemented Hardware Fault Tolerance** Olga Goloubeva,Maurizio Rebaudengo,Matteo Sonza Reorda,Massimo Violante,2006-09-19 Software Implemented Hardware Fault Tolerance addresses the innovative topic of software implemented hardware fault tolerance SIHFT i e how to deal with faults affecting the hardware by only or mainly acting on the software The first SIHFT techniques were proposed and adopted several decades ago but they have been the object of new interest in the past few years mainly due to the need for developing low cost safety critical computer based applications in fields such as automotive biomedics and telecommunications Therefore several new approaches to detect and when possible correct transient and permanent faults in the hardware have been recently proposed These approaches are innovative with respect to those proposed in the past since they are of higher applicability often starting from the source level code of an application and generality being capable of coping with many different fault types The book presents the theory behind software implemented hardware fault tolerance as well as the practical aspects related to put it at work on real examples By evaluating accurately the advantages and disadvantages of the already available approaches the book provides a guide to developers willing to adopt software implemented hardware fault tolerance in their applications Moreover the book identifies open issues for researchers willing to improve the already available techniques   Structronic

<u>Systems: Smart Structures, Devices And Systems (In 2 Parts)</u> Ardeshir Guran,Horn-sen Tzou,Gary L Anderson,Michihiro Natori,Ulrich Gabbert,Junji Tani,Elmar Breitbach,1998-04-04 This book is concerned with electrostructural systems particularly the interaction between the control of the structural and electrical electronic components Structronics is a new emerging area with many potential applications in the design of high performance structures adaptive structures high precision systems and micro systems As structures are increasingly being controlled by electronics the problems of structural engineering can be separated less and less from those of electronic engineering and control engineering This graduate level book fills a gap in the literature by considering these problems while giving an overview of the current state of analysis modelling and control for structronic systems It is a coherent compendium written by leading experts in this new research area and gives readers a sophisticated toolbox that will allow them to tackle the modelling and control of smart structures The inclusion of an extensive up to date bibliography and index makes this volume an invaluable standard for professional reference Because of the large number of contributions to the present volume it has been subdivided into two parts of which this is Part I This book will be of interest to engineers materials scientists physicists and applied mathematicians The synergistic integration of active smart materials structures sensors actuators and control electronics has redefined the concept of structures from a conventional passive elastic system to an active life like structronic structure electronic system with inherent self sensing diagnosis and control capabilities Because of its multi disciplinary nature the development of structronic systems has attracted researchers and scientists from many disciplines such as structures materials control electronics mathematics manufacturing electromechanics and mechanics In practical applications this new structronic system can be used as a component of high performance machines or structural systems or be an integrated structure itself performing designated function s Most common active smart materials such as piezoelectrics shape memory alloys electro and magneto strictive materials and polyelectrolyte gels have been reviewed in Part I Application examples are also provided and research issues reported on While the first part focuses primarily on materials and structures Part II emphasizes control applications and intelligent systems With the information provided in this two volume book scientists and researchers can easily grasp the state of the art of smart materials and structronic systems and are ready to pursue their own research and development endeavors   *Z User Workshop, York 1991* J. E. Nicholls,2012-12-06 In ordinary mathematics an equation can be written down which is syntactically correct but for which no solution exists For example consider the equation x x 1 defined over the real numbers there is no value of x which satisfies it Similarly it is possible to specify objects using the formal specification language Z 3 4 which can not possibly exist Such specifications are called inconsistent and can arise in a number of ways Example 1 The following Z specification of a functionf from integers to integers f x 1 x O fx x 1 i f x 1 x O fx x 2 ii is inconsistent because axiom i gives f 0 1 while axiom ii gives f 0 2 This contradicts the fact that f was declared as a function that is f must have a unique result when applied to an argument Hence no suchfexists Furthermore iff 0 1 andfO 2

then 1 2 can be deduced From 1 2 anything can be deduced thus showing the danger of an inconsistent specification Note that all examples and proofs start with the word Example or Proof and end with the symbol 1 Proceedings , **Design, Specification and Verification of Interactive Systems '97** Michael D. Harrison,Juan C. Torres,2012-12-06 An increasing recognition of the role of the human system interface is leading to new extensions and styles of specification Techniques are being developed that facilitate the expression of user oriented requirements and the refinement and checking of specifications of interactive systems This book reflects the state of the art in this important area and also contains a summary of working group discussions about how the various techniques represented might be applied to a common case study

Formal Methods for Distributed System Development Tommaso Bolognesi,Diego Latella,2013-03-20 th The 20 anniversary of the IFIP WG6 1 Joint International Conference on Fonna Methods for Distributed Systems and Communication Protocols FORTE XIII PSTV XX was celebrated by the year 2000 edition of the Conference which was held for the first time in Italy at Pisa October 10 13 2000 In devising the subtitle for this special edition Fonna Methods Implementation Under Test we wanted to convey two main concepts that in our opinion are reflected in the contents of this book First the early pioneering phases in the development of Formal Methods FM s with their conflicts between evangelistic and agnostic attitudes with their over optimistic applications to toy examples and over skeptical views about scalability to industrial cases with their misconceptions and myths all this is essentially over Many FM s have successfully reached their maturity having been implemented into concrete development practice a number of papers in this book report about successful experiences in specifYing and verifYing real distributed systems and protocols Second one of the several myths about FM s the fact that their adoption would eventually eliminate the need for testing is still quite far from becoming a reality and again this book indicates that testing theory and applications are still remarkably healthy A total of 63 papers have been submitted to FORTEIPSTV 2000 out of which the Programme Committee has selected 22 for presentation at the Conference and inclusion in the Proceedings Fault-Tolerant Computing Systems Mario Dal Cin,Wolfgang Hohl,2012-12-06 5th International GI ITG GMA Conference N rnberg September 25 27 1991 Proceedings 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

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