

Software Reliability



Computer System Reliability

Lynne Rosenthal



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Computer System Reliability B.S. Dhillon, 2016-04-19 Computer systems have become an important element of the world economy with billions of dollars spent each year on development manufacture operation and maintenance Combining coverage of computer system reliability safety usability and other related topics into a single volume Computer System Reliability Safety and Usability eliminates th

Reliability in Computer System Design Balbir S. Dhillon, 1987 This volume covers wide areas of interest such as life cycle costing microcomputers common cause failures and space computers Every effort is made to present difficult material with the aid of an example along with its solution The material covered is summarized at the end of each chapter The information is written in a format that allows readers to learn and better understand the philosophy of reliability in computer system design At the same time it tests their comprehension through listed exercises

Computer System Reliability Roy Longbottom, 1980

Reliability of Computer Systems and Networks Martin L. Shooman, 2003-03-25 With computers becoming embedded as controllers in everything from network servers to the routing of subway schedules to NASA missions there is a critical need to ensure that systems continue to function even when a component fails In this book bestselling author Martin Shooman draws on his expertise in reliability engineering and software engineering to provide a complete and authoritative look at fault tolerant computing He clearly explains all fundamentals including how to use redundant elements in system design to ensure the reliability of computer systems and networks Market Systems and Networking Engineers Computer Programmers IT Professionals

Computing System Reliability Min Xie, Kim-Leng Poh, Yuan-Shun Dai, 2013-04-09 Computing systems are of growing importance because of their wide use in many areas including those in safety critical systems This book describes the basic models and approaches to the reliability analysis of such systems An extensive review is provided and models are categorized into different types Some Markov models are extended to the analysis of some specific computing systems such as combined software and hardware imperfect debugging processes failure correlation multi state systems heterogeneous subsystems etc One of the aims of the presentation is that based on the sound analysis and simplicity of the approaches the use of Markov models can be better implemented in the computing system reliability

Achieving Safety and Reliability with Computer Systems B.K. Daniels, 2012-12-06 The safe operation of computer systems in both their software and hardware continues to be a key issue in many real time applications when people environment investment or goodwill can be at risk Such applications include the monitoring and control of high energy processes of nuclear and chemical plants of factory automation of transportation systems or funds transfer and of communication and information systems This book represents the proceedings of the 1987 Safety and Reliability Society Symposium held in Altrincham UK 11 12 November 1987 It is thus part of the series of proceedings for Society Events which in previous years have not addressed the topic of the Safety and Reliability of Computer Systems The book is also part of another series of reports and is closely related to the Elsevier Book

Safety and Reliability of Programmable Electronic Systems which I edited in 1986 and the series of workshops known as SAFECOMP held in 1979 1982 1983 1985 1986 which are referenced in some of the papers The structure of the book represents the structure of the Symposium itself The session titles and the papers as selected represent the current practice in many industries The trend is towards more industrial usage of Formal Methods and tools to support these methods whilst continuing to make best use of Software Engineering Safety and Reliability Assessment and accumulated experience

Guidance on Planning and Implementing Computer System Reliability, 1986-08 **Reliable Computer Systems**

Daniel Siewiorek, Robert Swarz, 2014-06-28 Enhance your hardware software reliability Enhancement of system reliability has been a major concern of computer users and designers and this major revision of the 1982 classic meets users continuing need for practical information on this pressing topic Included are case studies of reliable systems from manufacturers such as Tandem Stratus IBM and Digital as well as coverage of special systems such as the Galileo Orbiter fault protection system and AT T telephone switching processors

Reliability Evaluation of Computer Systems Edward J. McCluskey, M. D. Beaudry, STANFORD UNIV CA., 1979 This report summarizes research conducted at the Center for Reliable Computing with the support of the Air Force Office of Scientific Research from 1 April 1977 to 30 April 1979 Results and current work in various aspects of computer system reliability evaluation are described Partial Contents Reliability Evaluation of Fault Resistant Computer Systems System Level Reliability Analysis Component Level Reliability Analysis kt

A Systematic Study of Computer System Reliability Yih-Wu Han, 1976 **Computer Systems Reliability** T. Anderson, Tom

Anderson, Brian Randell, 1979-07-31 Guidance on Planning and Implementing Computer System Reliability Lynne Rosenthal, 1985 *Computer System Reliability* R. Longbottom, **Reliable Computer Systems** Santosh K.

Shrivastava, 2012-12-06 A research project to investigate the design and construction of reliable computing systems was initiated by B Randell at the University of Newcastle upon Tyne in 1972 In over ten years of research on system reliability a substantial number of papers have been produced by the members of this project These papers have appeared in a variety of journals and conference proceedings and it is hoped that this book will prove to be a convenient reference volume for research workers active in this important area In selecting papers published by past and present members of this project I have used the following criteria a paper is selected if it is concerned with fault tolerance and is not a review paper and was published before 1983 I have used these criteria with only one or two exceptions in order to present a collection of papers with a common theme and at the same time to limit the size of the book to a reasonable length The papers have been grouped into seven chapters The first chapter introduces fundamental concepts of fault tolerance and ends with the earliest Newcastle paper on reliability The project perhaps became well known after the invention of recovery blocks a simple yet effective means of incorporating fault tolerance in software The second chapter contains papers on recovery blocks starting with the paper which first introduced the concept

Guidance on Planning and Implementing Computer System

Reliability Lynne Rosenthal,1985 **Tutorial on Hardware and Software Reliability, Maintainability and Availability**

Norman F. Schneidewind,2008-10-21 Computer systems whether hardware or software are subject to failure Precisely what is a failure It is defined as The inability of a system or system component to perform a required function within specified limits A failure may be produced when a fault is encountered and a loss of the expected service to the user results IEEE AIAA P1633 This brings us to the question of what is a fault A fault is defect in the hardware or computer code that can be the cause of one or more failures Software based systems have become the dominant player in the computer systems world Since it is imperative that computer systems operate reliably considering the criticality of software particularly in safety critical systems the IEEE and AIAA commissioned the development of the Recommended Practice on Software Reliability This tutorial serves as a companion document with the purpose of elaborating on key software reliability process practices in more detail than can be specified in the Recommended Practice However since other subjects like maintainability and availability are also covered the tutorial can be used as a stand alone document While the focus of the Recommended Practice is software reliability software and hardware do not operate in a vacuum Therefore both software and hardware are addressed in this tutorial in an integrated fashion The narrative of the tutorial is augmented with illustrative solved problems The recommended practice IEEE P1633 is a composite of models and tools and describes the what and how of software reliability engineering It is important for an organization to have a disciplined process if it is to produce high reliability software This process uses a life cycle approach to software reliability that takes into account the risk to reliability due to requirements changes A requirements change may induce ambiguity and uncertainty in the development process that cause errors in implementing the changes Subsequently these errors may propagate through later phases of development and maintenance In view of the life cycle ramifications of the software reliability process maintenance is included in this tutorial Furthermore because reliability and maintainability determine availability the latter is also included *Safety of Computer Control Systems* R. Lauber,2014-05-19 *Safety of Computer Control Systems* is a collection of papers from the Proceedings of the IFAC Workshop held in Stuttgart Germany on May 16 18 1979 This book discusses the inherent problems in the hardware and software application of computerized control to automated systems safeguarding human life property and the environment The papers discuss more specific concerns such as railway systems aircraft landing systems nuclear power stations chemical reactors elevators and cranes The book also describes the safety and reliability of complex industrial computer systems together with an example showing the application of computers in power plants One paper presents guidelines in documenting safety related computer systems that will help various parties who are involved in their purchase and operation Another paper discusses how to detect failures in microcomputer systems such as memory violations and invalid operation code detectors This book then concludes by discussing the necessity of inspecting process computers used in nuclear power plants especially when computers are used in reactor protection control rod and authentication of log in

systems This collection can be of interest for students of programming process computer analysts heads of computer technology departments and institutions and lecturers in industrial computer programming and design

Guidance on Planning and Implementing Computer System Reliability L.S. Rosenthal, United States. National Bureau of Standards, 1985

Practical Guide to Clinical Computing Systems Thomas Payne, 2011-09-02 The development of clinical computing systems is a rapidly growing priority area of health information technology spurred in large measure by robust funding at the federal and state levels It is widely recognized as one of the key components for reducing costs and improving the quality of care At the same time as more and more hospitals and clinics are installing clinical computing systems major issues related to design operations and infrastructure remain to be resolved This book tackles these critical topics including system selection configuration installation user support interface engines and long term operation It also familiarizes the reader with regulatory requirements budgetary issues and other aspects of this new electronic age of healthcare delivery It begins with an introduction to clinical computing and definition of key terminology The next several chapters talk about system architecture and interface design followed by detailed discussion of all aspects of operations Attention is then given to the realities of leadership planning oversight budgeting and employee recruitment This invaluable resource includes a special section that talks about career development for students and others interested in entering the field Provides a complete overview of practical aspects Detailed guidance on the design and operation of clinical computing systems Discusses how clinical computing systems relate to health care organization committees and organizational structure Includes numerous real life examples with expert insights on how to avoid pitfalls

Measurement and Modeling of Computer Reliability as Affected by System Activity Stanford University. Computer Systems Laboratory, Ravishankar Krishnan Iyer, David J. Rossetti, M. C. Hsueh, 1985 THIS PAPER DEMONSTRATES A PRACTICAL APPROACH TO STUDY THE FAILURE BEHAVIOR OF COMPUTER SYSTEMS Particular attention is devoted to the analysis of permanent failures a number of important techniques which have general applicability in both failure and workload analysis are brought together in this presentation These include smeared averaging of the workload data clustering of like failures match merging and joint analysis of workload and failures of workload Approximately 17% of all failures affecting the CPU were established to be permanent The manifestation of a permanent failure was found to be strongly correlated with the level and type of workload prior to the failure Although in strict terms the results only relate to the manifestation of permanent failures and not the other occurrence there are strong indications that permanent failures are both caused and discovered by increased activity More measurements and experiments are necessary to determine their respective contributions to the workload failure relationship Caution should be exercised in directly extrapolating the absolute numbers obtained here to other non similar systems Such extrapolation can be considered valid only if supported by a similar analysis of data

Keywords Fault tolerant computing Central processing units

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