



Distributed Real-Time Systems



Testability Of Distributed Real Time Systems

Sten F. Andler, Jörgen Hansson



Testability Of Distributed Real Time Systems:

The Testability of Distributed Real-Time Systems Werner Schütz, 2007-07-23 BY H KOPETZ A real time computer system must provide the intended service in two dimensions the functional value dimension and the temporal dimension The verification of a real time system implementation is thus necessarily more complex than the verification of a non real time system which has to be checked in the value dimension only Since the formal verification techniques of temporal properties have not yet matured to the point where these techniques can be used in practical system development systematic design and testing are the only alternatives for the development of dependable real time systems At present up to and more than fifty percent of the development effort of complex real time computer systems is spent on testing The test activities are thus a significant cost element in any real time system project The attack on this cost element has to proceed from two fronts the design for testability and the development of a systematic test methodology supported by an appropriate tool set This book covers both of these topics

Real-Time and Distributed Real-Time Systems Amitava Gupta, Anil Kumar Chandra, Peter Luksch, 2016-04-27 Digital computers have revolutionized computation and transformed how computers are used to control systems in real life giving birth to real time systems Furthermore massive developments in the communications domain have made it possible for real time systems to perform coordinated actions over communication interfaces resulting in the evolution

Real-Time Systems Hermann Kopetz, 2006-04-18 7 6 Performance Comparison ET versus TT 164 7 7 The Physical Layer 166 Points to Remember 168 Bibliographic Notes 169 Review Questions and Problems 170 Chapter 8 The Time Triggered Protocols 171 Overview 171 8 1 Introduction to Time Triggered Protocols 172 8 2 Overview of the TTP C Protocol Layers 175 8 3 The Basic CNI 178 Internal Operation of TTP C 181 8 4 8 5 TTP A for Field Bus Applications 185 Points to Remember 188 Bibliographic Notes 190 Review Questions and Problems 190 Chapter 9 Input Output 193 Overview 193 9 1 The Dual Role of Time 194 9 2 Agreement Protocol 196 9 3 Sampling and Polling 198 9 4 Interrupts 201 9 5 Sensors and Actuators 203 9 6 Physical Installation 207 Points to Remember 208 Bibliographic Notes 209 Review Questions and Problems 209 Chapter 10 Real Time Operating Systems 211 Overview 211 10 1 Task Management 212 10 2 Interprocess Communication 216 10 3 Time Management 218 10 4 Error Detection 219 10 5 A Case Study ERCOS 221 Points to Remember 223 Bibliographic Notes 224 Review Questions and Problems 224 Chapter 11 Real Time Scheduling 227 Overview 227 11 1 The Scheduling Problem 228 11 2 The Adversary Argument 229 11 3 Dynamic Scheduling 231 x TABLE OF CONTENTS 11 4 Static Scheduling 237 Points to Remember 240 Bibliographic Notes 242 Review Questions and Problems 242 Chapter 12 Validation 245 Overview 245 12 1 Building a Convincing Safety Case 246 12 2 Formal Methods 248 12 3 Testing Active, Real-Time, and Temporal Database Systems Sten F. Andler, Jörgen Hansson, 2003-06-26 Database systems of the next generation are likely to be inherently very complex due to the diversity of requirements placed on them Incorporating active real time and temporal virtues in one database system is an arduous effort but is also a commendable one This book presents the proceedings of the

Second International Workshop on Active Real Time and Temporal Database Systems ARTDB 97 held in Como Milan in September 1997 The aim of the workshop was to bring researchers together from the active and real time research communities and to examine the current state of the art in active real time and temporal database systems This book offers a collection of papers presented at the ARTDB 97 workshop The papers many of them representing proficient and tenable results illuminate the feasibility of building database system supporting reactive behavior while enforcing timeliness and predictability The book contains nine papers carefully reviewed and accepted by the program committee three invited papers written by prominent researchers in the field and two summaries of the panel discussions held at the workshop The program committee received seventeen submissions where each submission was reviewed by at least three program committee members The two panel sessions focused on predictability issues and on practical experience of active real time and temporal database systems The ARTDB 97 workshop was held in cooperation with the IEEE Technical Committees on Real Time Systems and Complexity in Computing and the ACM Special Interest Group on Manipulation of Data

Design and Analysis of Distributed Embedded Systems Bernd Kleinjohann,K.H. (Kane) Kim,Lisa Kleinjohann,Achim Rettberg,2013-04-17 Design and Analysis of Distributed Embedded Systems is organized similar to the conference Chapters 1 and 2 deal with specification methods and their analysis while Chapter 6 concentrates on timing and performance analysis Chapter 3 describes approaches to system verification at different levels of abstraction Chapter 4 deals with fault tolerance and detection Middleware and software reuse aspects are treated in Chapter 5 Chapters 7 and 8 concentrate on the distribution related topics such as partitioning scheduling and communication The book closes with a chapter on design methods and frameworks

Predictably Dependable Computing Systems Brian Randell,Jean-Claude Laprie,Hermann Kopetz,Bev Littlewood,2013-11-11

Distributed Computer Control Systems 1995 A.E.K. Sahraoui,J.A. de la Puente,2014-05-23 The series of IFAC Workshops on distributed computer control systems DCCS provide the opportunity for leading researchers and practitioners in the field to discuss and evaluate recent advances and current issues in theory applications and technology of DCCS DCCS 95 the 13th IFAC workshop in the series was held in Toulouse Blagnac France The topics covered at this meeting included the role of real time in DCCS specifications scheduling methods for DCCS real time distributed operating systems and databases and industrial applications and experience with DCSS

Design Guidelines for a Monitoring Environment Concerning Distributed Real-time Systems Aida Omerovic,2004 While the dependability requirements of distributed real time systems are expanding there is currently no framework for defining and mapping these requirements into the system design and operation A method of controlling and achieving the dependability level is real time monitoring which measures the degree of requirements fulfilment relates it to the pre defined measurable system level expectations and dynamically adapts the system based on quality metrics risk analysis cost evaluation control theory neural networks data acquisition and system knowledge management The book deduces a framework to reveal define

quantify measure analyse design implement test monitor and enhance dependability functional and non functional requirements of a distributed system with real time constraints It is presented how the framework can be applied throughout all life cycle stages under varying constraints and with maximised cost effectiveness An overview of the tools and methodologies applicable has been given and an integrated and generalised architecture for ensuring continuous fulfilment of system requirements proposed The framework provides a multilevel specification mechanism to establish the preservation of system requirements This ensures the correct functioning of system through adaptations at run time Among the benefits are controlled access and coordinated resource sharing in accordance with service level agreement policies multi stakeholder interest preservation transparency with respect to location naming performance etc achievement of quality of service on demand decentralisation seamless integration of resources and applications as well as increased predictability

READERSHIP The intended audience is broad real time and distributed systems scientists and developers software engineers students quality assurance managers contractors users service providers and all those searching for an alternative approach to handling and ensuring automated control of fulfilment of system requirements Moreover those needing a handbook on contract negotiations and a method of tracing operational results back into system requirements of long lived projects with high dependability and integrity demands

Advanced Distributed Systems Felix F. Ramos, 2005-09-15 This book constitutes the thoroughly refereed post proceedings of the Fifth International School and Symposium on Advanced Distributed Systems ISSADS 2005 held in Guadalajara Mexico in January 2005 The 50 revised full papers presented were carefully reviewed and selected from over 100 submissions The papers are organized in topical sections on database systems distributed and parallel algorithms real time distributed systems cooperative information systems fault tolerance information retrieval modeling and simulation wireless networks and mobile computing artificial life and multi agent systems

Introduction to Software Testing Paul Ammann, Jeff Offutt, 2008-01-28 Extensively class tested this textbook takes an innovative approach to software testing it defines testing as the process of applying a few well defined general purpose test criteria to a structure or model of the software It incorporates the latest innovations in testing including techniques to test modern types of software such as OO web applications and embedded software The book contains numerous examples throughout An instructor s solution manual PowerPoint slides sample syllabi additional examples and updates testing tools for students and example software programs in Java are available on an extensive website

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