Verifying Concurrent Processes Using Temporal Logic

Michel Diaz

Verifying Concurrent Processes Using Temporal Logic:

Verifying Concurrent Processes Using Temporal Logic B. T. Hailpern,1982-03 *Verifying Concurrent Processes Using Temporal Logic* Brent Tzion Hailpern,1982 **Verifying concurrent processes using temporal logic** Brent T. Hailpern,1982 **Verifying Concurrent Processes Using Temporal Logic** Brent Tzion Hailpern,Stanford University. Computer Systems Laboratory,1980 **Verification of Digital and Hybrid Systems** M. Kemal Inan,Robert P. Kurshan,2012-12-06 This book grew out of a NATO Advanced Study Institute summer school that was held in Antalya TUrkey from 26 May to 6 June 1997 The purpose of the summer school was to expose recent advances in the formal verification of systems composed of both logical and continuous time components The course was structured in two parts The first part covered theorem proving system automaton models logics tools and complexity of verification The second part covered modeling and verification of hybrid systems i e systems composed of a discrete event part and a continuous time part that interact with each other in novel ways Along with advances in microelectronics methods to design and build logical systems have grown progressively complex One way to tackle the problem of ensuring the error free operation of digital or hybrid systems is through the use of formal techniques The exercise of comparing the formal specification of a logical system namely what it is supposed to do to its formal operational description what it actually does in an automated or semi automated manner is called verification Verification can be performed in an after the fact manner meaning that after a system is already designed its specification and operational description are regenerated or modified if necessary to match the verification tool at hand and the consistency check is carried out Communicating Process Architectures 2008 P. H. Welch,2008 Communicating Process Architectures 2008 contains the proceedings of the thirty first Communicating Process Architectures Conference CPA 2008 organized under the auspices of WoTUG and the Department of Computer Science of the University of York The aim of this book is to cover both theoretical aspects and industrial applications of Communicating Processes Two invited speakers have given excellent contributions to this topic Professor Samson Abramsky has worked in the areas of semantics and logic of computation and concurrency His work on game semantics considers interaction and information flow between multiple agents and their environment This has yielded new approaches to compositional model checking and to analysis for programs with state concurrency probability and other features Professor Colin O Halloran has been instrumental in the uptake of formal methods in the development and verification of high assurance systems on an industrial scale His research interests are in automating the use of formal methods and using these techniques at reasonable cost and on an industrial scale **Verification of Reactive Systems** Klaus Schneider,2013-03-09 Reactive systems are becoming more and more important for essentially all areas of technical and professional activities as well as for many areas of everyday life The design of these systems is a great challenge and requires sound compromises between safety and time to market To meet these needs early design phases nowadays include verification of given specifications against system

descriptions to find potential design errors as early as possible This book is devoted to the foundation of the most popular formal methods for the specification and verification of reactive systems In particular the calculus omega automata and temporal logics are covered in full detail their relationship and state of the art verification procedures based on these formal approaches are presented Furthermore the advantages and disadvantages of the formalisms from particular points of view are analyzed Most results are given with detailed proofs so that the presentation is almost self contained This book is targeted to advanced students lecturers and researchers in the area of formal methods **Distributed Computer Systems** H. S. M. Zedan,2014-05-12 Distributed Computer Systems Theory and Practice is a collection of papers dealing with the design and implementation of operating systems including distributed systems such as the amoeba system argus Andrew and grapevine One paper discusses the concepts and notations for concurrent programming particularly language notation used in computer programming synchronization methods and also compares three classes of languages Another paper explains load balancing or load redistribution to improve system performance namely static balancing and adaptive load balancing For program efficiency the user can choose from various debugging approaches to locate or fix errors without significantly disturbing the program behavior Examples of debuggers pertain to the ada language and the occam programming language Another paper describes the architecture of a real time distributed database system used for computer network management monitoring integration as well as administration and control of both local area or wide area communications networks The book can prove helpful to programmers computer engineers computer technicians and computer instructors dealing with many aspects of computers such as programming hardware interface networking engineering or design *Scientific and Technical Aerospace Reports* ,1981-05 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Time & Logic* Leonard Bolc,Andrzej Szałas,2019-10-24 Originally published in 1995 Time and Logic examines understanding and application of temporal logic presented in computational terms The emphasis in the book is on presenting a broad range of approaches to computational applications The techniques used will also be applicable in many cases to formalisms beyond temporal logic alone and it is hoped that adaptation to many different logics of program will be facilitated Throughout the authors have kept implementation orientated solutions in mind The book begins with an introduction to the basic ideas of temporal logic Successive chapters examine particular aspects of the temporal theoretical computing domain relating their applications to familiar areas of research such as stochastic process theory automata theory established proof systems model checking relational logic and classical predicate logic This is an essential addition to the library of all theoretical computer scientists It is an authoritative work which will meet the needs both of those familiar with the field and newcomers to it *CAAP '88* Max Dauchet,Maurice Nivat,1988-03-09 This volume contains the proceedings of the 13th Colloquium on Trees in Algebra and Programming CAAP 88 held in Nancy March 21 24 1988 The preceding 12 colloquia

were held in France Italy and Germany CAAP 85 and CAAP 87 were integrated into the International Joint Conference on Theory and Practice of Software Development TAPSOFT see Lecture Notes in Computer Science volumes 185 and 249 As another effort to link theory and practice in computer science CAAP 88 was held in conjunction with the European Symposium on Programming ESOP 88 see volume 300 of this Lecture Notes series CAAP 88 is a conference in the area of program development and programming concepts but following the tradition is devoted to theoretical aspects and especially to Trees a basic structure of computer science A wider range of topics in theoretical computer science is also covered The papers are on word tree or graph languages with algorithmic or complexity studies on abstract data types another classical topic of CAAP and or term rewriting systems and on non standard logics and parallelism and concurrency Protocol Specification, Testing, and Verification Carl A. Sunshine,1982 *Protocol Specification, Testing, and Verification, III* Harry Rudin,Colin H. West,1983 Protocol Specification, Testing, and Verification, IV Yechiam Yemini,Robert Strom,Shaula Yemini,1985 Hardbound This book covers research in protocol theory and analysis specification and formal models of protocols protocol validation and verification performance analysis of protocols and protocol design implementation and testing Main Features 1 Broad coverage of the research in the area of computer communication protocols 2 A combination of theoretical and experimental research on protocol modelling design analysis synthesis verification and testing 3 A description of international research activities conducted by leading researchers in the field from over 13 countries *Protocol Specification, Testing, and Verification, V* Michel Diaz,1986 Formal Verification of Hardware Design Michael Yoeli,1990

ACM Transactions on Programming Languages and Systems Association for Computing Machinery,1992 *Topics in the Theoretical Bases and Applications of Computer Science* Mátyás Arató,I. Kátai,László Varga (C. Sc.),1986 This volume contains 42 papers given at the 4th Hungarian Computer Science Conference This international conference was aimed to provide an opportunity for the exchange of ideas among researchers and practitioners from 20 countries in the applications and theoretical bases of computer science The papers of this volume were selected to reflect the atmosphere of the conference and to give an adequate overview of the main topics presented formal languages automata theory Petri nets Program semantics Models for computation mathematical algorithms databases and information retrieval systems distributed systems expert systems and artificial intelligence *Logic and Its Application to Computing Science* Brian Randell,1987

Protocol Specification, Testing and Verification XV Piotr Dembinski,Marek Sredniawa,1995-11-30 This volume presents the latest research worldwide on communications protocols emphasizing specification and compliance testing It presents the complete proceedings of the fifteenth meeting on Protocol Specification Testing and Verification arranged by the International Federation for Information Processing

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