

Model (System Requirement)

Model  
Checking  
Tool

Specification  
(System Property)

Yes, if model satisfies  
specification, Else  
counter-example

# Model Checking Software

**Thomas Ball, Sriram K. Rajamani**

## **Model Checking Software:**

Systems and Software Verification B. Berard,M. Bidoit,A. Finkel,F. Laroussinie,A. Petit,L. Petrucci,P. Schnoebelen,2013-04-17 Model checking is a powerful approach for the formal verification of software When applicable it automatically provides complete proofs of correctness or explains via counter examples why a system is not correct This book provides a basic introduction to this new technique The first part describes in simple terms the theoretical basis of model checking transition systems as a formal model of systems temporal logic as a formal language for behavioral properties and model checking algorithms The second part explains how to write rich and structured temporal logic specifications in practice while the third part surveys some of the major model checkers available Model Checking Software Matthew Dwyer,2003-06-29 This book constitutes the refereed proceedings of the 8th International SPIN Workshop held in Toronto Canada in May 2001 The SPIN model checker is one of the most powerful and popular systems for the analysis and verification of distributed and concurrent systems The 13 revised full papers presented together with one invited survey paper and three invited industrial experience reports were carefully reviewed and selected from 26 submissions Besides foundational issues of program analysis and formal verification the papers focus on tools for model checking and practical applications in a variety of fields Model Checking Software International SPIN Workshop on Model Checking of Software,2003 Principles of Model Checking Christel Baier,Joost-Pieter Katoen,2008-04-25 A comprehensive introduction to the foundations of model checking a fully automated technique for finding flaws in hardware and software with extensive examples and both practical and theoretical exercises Our growing dependence on increasingly complex computer and software systems necessitates the development of formalisms techniques and tools for assessing functional properties of these systems One such technique that has emerged in the last twenty years is model checking which systematically and automatically checks whether a model of a given system satisfies a desired property such as deadlock freedom invariants and request response properties This automated technique for verification and debugging has developed into a mature and widely used approach with many applications Principles of Model Checking offers a comprehensive introduction to model checking that is not only a text suitable for classroom use but also a valuable reference for researchers and practitioners in the field The book begins with the basic principles for modeling concurrent and communicating systems introduces different classes of properties including safety and liveness presents the notion of fairness and provides automata based algorithms for these properties It introduces the temporal logics LTL and CTL compares them and covers algorithms for verifying these logics discussing real time systems as well as systems subject to random phenomena Separate chapters treat such efficiency improving techniques as abstraction and symbolic manipulation The book includes an extensive set of examples most of which run through several chapters and a complete set of basic results accompanied by detailed proofs Each chapter concludes with a summary bibliographic notes and an extensive list of exercises of both practical and theoretical nature

**Model Checking Software** Matthew Dwyer,2003-06-29 This book constitutes the refereed proceedings of the 8th International SPIN Workshop held in Toronto Canada in May 2001 The SPIN model checker is one of the most powerful and popular systems for the analysis and verification of distributed and concurrent systems The 13 revised full papers presented together with one invited survey paper and three invited industrial experience reports were carefully reviewed and selected from 26 submissions Besides foundational issues of program analysis and formal verification the papers focus on tools for model checking and practical applications in a variety of fields [Model Checking Software](#) Thomas Ball,Sriram K. Rajamani,2003-08-03 This book constitutes the refereed proceedings of the 10th International SPIN workshop on Model Checking of Software SPIN 2003 held in Portland OR USA in May 2003 as an ICSE 2003 satellite workshop The 14 revised full papers and 3 revised tool papers presented were carefully reviewed and selected from 30 submissions The book presents state of the art results on the analysis and verification of distributed software systems using the SPIN model checker as one of the most powerful and widely applied systems [Model Checking Software](#) Dragan Bosnacki,Stefan Edelkamp,2007-08-30 This book presents the proceedings of the 14th International SPIN workshop on Model Checking Software held in Berlin Germany Fourteen full papers are presented together with four tool presentation papers and the abstracts of two invited talks The papers are organized into topical sections covering directed model checking partial order reduction program analysis exploration advances modeling and case studies and tool demonstrations [Model Checking Software](#) ,2010 [Model Checking Software](#) Thomas Ball,Sriram K. Rajamani,2003-04-28 This book constitutes the refereed proceedings of the 10th International SPIN workshop on Model Checking of Software SPIN 2003 held in Portland OR USA in May 2003 as an ICSE 2003 satellite workshop The 14 revised full papers and 3 revised tool papers presented were carefully reviewed and selected from 30 submissions The book presents state of the art results on the analysis and verification of distributed software systems using the SPIN model checker as one of the most powerful and widely applied systems [Model Checking, second edition](#) Edmund M. Clarke, Jr.,Orna Grumberg,Daniel Kroening,Doron Peled,Helmut Veith,2018-12-04 An expanded and updated edition of a comprehensive presentation of the theory and practice of model checking a technology that automates the analysis of complex systems Model checking is a verification technology that provides an algorithmic means of determining whether an abstract model representing for example a hardware or software design satisfies a formal specification expressed as a temporal logic formula If the specification is not satisfied the method identifies a counterexample execution that shows the source of the problem Today many major hardware and software companies use model checking in practice for verification of VLSI circuits communication protocols software device drivers real time embedded systems and security algorithms This book offers a comprehensive presentation of the theory and practice of model checking covering the foundations of the key algorithms in depth The field of model checking has grown dramatically since the publication of the first edition in 1999 and this second edition reflects the advances in the field

Reorganized expanded and updated the new edition retains the focus on the foundations of temporal logic model while offering new chapters that cover topics that did not exist in 1999 propositional satisfiability SAT based model checking counterexample guided abstraction refinement and software model checking The book serves as an introduction to the field suitable for classroom use and as an essential guide for researchers **Model Checking Software** Dragan Bosnacki,Stefan Leue,2003-08-01 The SPIN workshop series brings together researchers and practitioners interested in explicit state model checking technology as it is applied to the verification of software systems Since 1995 when the SPIN workshop series was instigated SPIN workshops have been held on an annual basis at Montréal 1995 New Brunswick 1996 Enschede 1997 Paris 1998 Trento 1999 Toulouse 1999 Stanford 2000 and Toronto 2001 While the first SPIN workshop was a stand-alone event later workshops have been organized as more or less closely related events with larger conferences in particular with CAV 1996 TACAS 1997 FORTE 1998 PSTV 1998 FLOC 1999 World Congress on Formal Methods 1999 FMOODS 2000 and ICSE 2001 This year SPIN 2002 was held as a satellite event of ETAPS 2002 the European Joint Conferences on Theory and Practice of Software The co-location of SPIN workshops with conferences has proven to be very successful and has helped to disseminate SPIN model checking technology to wider audiences Since 1999 the proceedings of the SPIN workshops have appeared in Springer Verlag's Lecture Notes in Computer Science series The history of successful SPIN workshops is evidence for the maturing of model checking technology not only in the hardware domain but increasingly also in the software area While in earlier years algorithms and tool development around the SPIN model checker were the focus of this workshop series the scope has recently widened to include more general approaches to software model checking Current research in this area concentrates not so much on completely verifying system models but rather on analyzing source code in order to discover software faults **Model Checking Software** Klaus Havelund,Rupak Majumdar,Jens Palsberg,2008-08-17 This book constitutes the refereed proceedings of the 15th International SPIN workshop on Model Checking Software SPIN 2008 held in Los Angeles CA USA in August 2008 The 17 revised full papers presented together with 1 tool paper and 4 invited talks were carefully reviewed and selected from 41 submissions The main focus of the workshop series is software systems including models and programs The papers cover theoretical and algorithmic foundations as well as tools for software model checking and foster interactions and exchanges of ideas with related areas in software engineering such as static analysis dynamic analysis and testing **Model Checking Software** Corina S Pasareanu,2009-06-26 This book constitutes the refereed proceedings of the 16th International SPIN workshop on Model Checking Software SPIN 2009 held in Grenoble France in June 2009 The 15 revised full papers presented together with 3 tool papers and 4 invited talks were carefully reviewed and selected from 41 submissions The papers cover theoretical and algorithmic foundations as well as tools for software model checking by addressing theoretical advances and empirical evaluations related to state space and path exploration techniques as implemented in software verification tools **Model Checking Software** Alastair Donaldson,David Parker,2012-07-18 This

book constitutes the thoroughly refereed proceedings of the 19th International SPIN workshop on Model Checking Software SPIN 2012 held in Oxford UK in July 2012 The 11 revised full papers presented together with 5 tool papers and 4 invited talks were carefully reviewed and selected from 30 submissions The papers are grouped in topical sections on model checking techniques parallel model checking case studies model checking for concurrency and tool demonstrations

**Model Checking Software** María del Mar Gallardo, Pedro Merino, 2018-06-15 This book constitutes the refereed proceedings of the 25th International Symposium on Model Checking Software SPIN 2018 held in Malaga Spain in June 2018 The 14 papers presented 1 short paper and 1 demo tool paper were carefully reviewed and selected from 28 submissions Topics covered include formal verification techniques for automated analysis of software formal analysis for modeling languages such as UML state charts formal specification languages temporal logic design by contract model checking automated theorem proving including SAT and SMT verifying compilers abstraction and symbolic execution techniques and much more [Model Checking Software](#) Thomas Ball, Sriram K. Rajamani, 2003 **Model Checking Software** Antti Valmari, 2006-03-29 This book constitutes the refereed proceedings of the 13th International SPIN workshop on Model Checking Software SPIN 2006 held in Vienna Austria in March April 2006 as satellite event of ETAPS 2006 The 16 revised full papers presented together with three tool presentation papers were carefully reviewed and selected from 44 submissions The papers are organized in topical sections **Model Checking Software** Susanne Graf, Laurent Mounier, 2004-02-27 Since 1995 when the SPIN workshop series was instigated SPIN workshops have been held on an annual basis in Montréal 1995 New Brunswick 1996 Enschede 1997 Paris 1998 Trento 1999 Toulouse 1999 Stanford 2000 Toronto 2001 Grenoble 2002 and Portland 2003 All but the first SPIN workshop were organized as satellite events of larger conferences in particular of CAV 1996 TACAS 1997 FORTE PSTV 1998 FLOC 1999 the World Congress on Formal Methods 1999 FMOODS 2000 ICSE 2001 2003 and ETAPS 2002 This year again SPIN was held as a satellite event of ETAPS 2004 The co location of SPIN workshops with conferences has proven to be very successful and has helped to disseminate SPIN model checking technology to wider audiences Since 1999 the proceedings of the SPIN workshops have appeared in Springer Verlag's Lecture Notes in Computer Science series The history of successful SPIN workshops is evidence for the maturing of model checking technology not only in the hardware domain but increasingly also in the software area While in earlier years algorithms and tool development around the SPIN model checker were the focus of this workshop series for several years now the scope has been widened to include more general approaches to software model checking techniques and tools as well as applications The SPIN workshop has become a forum for all practitioners and researchers interested in model checking based techniques for the validation and analysis of communication protocols and software systems [Model Checking Software](#) Fabrizio Biondi, Thomas Given-Wilson, Axel Legay, 2019-10-02 This book constitutes the refereed proceedings of the 26th International Symposium on Model Checking Software SPIN 2019 held in Beijing China in July 2019 The 11 full papers

presented and 2 demo tool papers were carefully reviewed and selected from 29 submissions. Topics covered include formal verification techniques for automated analysis of software, formal analysis for modeling languages such as UML state charts, formal specification languages, temporal logic design by contract, model checking, automated theorem proving including SAT and SMT, verifying compilers, abstraction and symbolic execution techniques and much more. [Model Checking Software](#), 2002

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