# Computer-Aided Reasoning ACL2 Case Studies

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# Computer Aided Reasoning Acl2 Case Studies

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**Computer Aided Reasoning Acl2 Case Studies:**

Computer-Aided Reasoning Matt Kaufmann,Panagiotis Manolios,J Strother Moore,2013-04-17 Computer Aided Reasoning ACL2 Case Studies illustrates how the computer aided reasoning system ACL2 can be used in productive and innovative ways to design build and maintain hardware and software systems Included here are technical papers written by twenty one contributors that report on self contained case studies some of which are sanitized industrial projects The papers deal with a wide variety of ideas including floating point arithmetic microprocessor simulation model checking symbolic trajectory evaluation compilation proof checking real analysis and several others Computer Aided Reasoning ACL2 Case Studies is meant for two audiences those looking for innovative ways to design build and maintain hardware and software systems faster and more reliably and those wishing to learn how to do this The former audience includes project managers and students in survey oriented courses The latter audience includes students and professionals pursuing rigorous approaches to hardware and software engineering or formal methods Computer Aided Reasoning ACL2 Case Studies can be used in graduate and upper division undergraduate courses on Software Engineering Formal Methods Hardware Design Theory of Computation Artificial Intelligence and Automated Reasoning The book is divided into two parts Part I begins with a discussion of the effort involved in using ACL2 It also contains a brief introduction to the ACL2 logic and its mechanization which is intended to give the reader sufficient background to read the case studies A more thorough textbook introduction to ACL2 may be found in the companion book Computer Aided Reasoning An Approach The heart of the book is Part II where the case studies are presented The case studies contain exercises whose solutions are on the Web In addition the complete ACL2 scripts necessary to formalize the models and prove all the properties discussed are on the Web For example when we say that one of the case studies formalizes a floating point multiplier and proves it correct we mean that not only can you read an English description of the model and how it was proved correct but you can obtain the entire formal content of the project and replay the proofs if you wish with your copy of ACL2 ACL2 may be obtained from its home page The results reported in each case study as ACL2 input scripts as well as exercise solutions for both books are available from this page

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and students in survey oriented courses The latter audience includes students and professionals pursuing rigorous approaches to hardware and software engineering or formal methods Computer Aided Reasoning ACL2 Case Studies can be used in graduate and upper division undergraduate courses on Software Engineering Formal Methods Hardware Design Theory of Computation Artificial Intelligence and Automated Reasoning The book is divided into two parts Part I begins with a discussion of the effort involved in using ACL2 It also contains a brief introduction to the ACL2 logic and its mechanization which is intended to give the reader sufficient background to read the case studies A more thorough textbook introduction to ACL2 may be found in the companion book Computer Aided Reasoning An Approach The heart of the book is Part II where the case studies are presented The case studies contain exercises whose solutions are on the Web In addition the complete ACL2 scripts necessary to formalize the models and prove all the properties discussed are on the Web For example when we say that one of the case studies formalizes a floating point multiplier and proves it correct we mean that not only can you read an English description of the model and how it was proved correct but you can obtain the entire formal content of the project and replay the proofs if you wish with your copy of ACL2 ACL2 may be obtained from its home page The results reported in each case study as ACL2 input scripts as well as exercise solutions for both books are available from this page

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aided reasoning is further demonstrated in the companion book Computer Aided Reasoning ACL2 Case Studies Approximately 140 exercises are distributed throughout the book Additional material is freely available from the ACL2 home page on the Web including solutions to the exercises additional exercises case studies from the companion book research papers and the ACL2 system with detailed documentation      *COMPUTER-AIDED REASONING* MATT. KAUFMANN,2011

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safety critical and security critical applications it is becoming increasingly important for our well being to ensure that those systems execute c rectly Over the last decade formal veri cation has made signi cant headway in the analysis of industrial systems particularly in the realm of veri cation of hardware A key advantage of formal veri cation is that it provides a mathematical guarantee of their correctness up to the accuracy of formal models and correctness of r soning tools In the process the analysis can expose subtle design errors Formal veri cation is particularly effective in nding corner case bugs that are dif cult to detect through traditional simulation and testing Nevertheless and in spite of its promise the application of formal veri cation has so far been limited in an ind trial design validation tool ow The dif culties in its large scale adoption include the following 1 deductive veri cation using theorem provers often involves cessive and prohibitive manual effort and 2 automated decision procedures e g model checking can quickly hit the bounds of available time and memory This book presents recent advances in formal veri cation techniques and d cusses the applicability of the techniques in ensuring the reliability of large scale systems We deal with the veri cation of a range of computing systems from quential programsto concurrentprotocolsand pipelined machines **Formal Methods in Computer-aided Design** ,2002 **Computer-aided Verification** ,2004 Computer-Aided Reasoning Matt Kaufmann,Panagiotis Manolios,J. Strother Moore,2014-01-15 Proceedings of the Java Virtual Machine Research and Technology Sy[m]posium (JVM '01) ,2001 **Proceedings** ,2004 Logic for Programming, Artificial Intelligence, and Reasoning ,2001 **Proceedings of the Java Virtual Machine Research and Technology Symposium** ,2001 Formal Methods and Software Engineering ,2003 *Proceedings of the ... International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming* ,2009 **Artificial Intelligence and Symbolic Computation** ,2000 **Algebraic Methodology and Software Technology** ,2004 *Tools and Algorithms for the Construction and Analysis of Systems* ,2003 **Proceedings of the ... ACM Great Lakes Symposium on VLSI.** ,2005

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