High Integrity Compilation: A Case Study

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J. Bowen

High Integrity Compilation A Case Study:

   High Integrity Software Victor L. Winter,Sourav Bhattacharya,2012-12-06 The second half of the twentieth century has witnessed remarkable advances in technology The unquestioned leader in this race has been computer technology Even the most modest personal computers today have computing power that would have astounded the leading technol ogists a few decades earlier and what s more similar advances are pre dicted for many years to come Looking towards the future it has been conservatively estimated that in 2047 computers could easily be 100 000 times more powerful than they were in 1997 Moore s law Moore would lead to an increase on the order of around 10 billion Bell Because of its enormous capability computer technology is becoming pervasive across the technology spectrum Nowadays it is not surpris ing to discover that very common household gadgets like your toaster contain computer technology Televisions microwave ovens and even electric shavers contain software And what s more the use of computer technology has been estimated to double every two years Gibbs In order to keep up with the growing technology demands and to fully utilize the ever more powerful computing platforms software projects have become more and more ambitious This has lead to software systems becoming dominant forces in system functionality Further more the ambition to realize significant portions of a system s function ality through software has extended into the high consequence realm Presently software controls many critical functions in 1 airplanes 2 electronic commerce 3 space bound systems 4 medical systems and 5 various transportation systems such as automobiles and trains   *Towards Verified Systems* J. Bowen,2013-10-22 As the complexity of embedded computer controlled systems increases the present industrial practice for their development gives cause for concern especially for safety critical applications where human lives are at stake The use of software in such systems has increased enormously in the last decade Formal methods based on firm mathematical foundations provide one means to help with reducing the risk of introducing errors during specification and development There is currently much interest in both academic and industrial circles concerning the issues involved but the techniques still need further investigation and promulgation to make their widespread use a reality This book presents results of research into techniques to aid the formal verification of mixed hardware software systems Aspects of system specification and verification from requirements down to the underlying hardware are addressed with particular regard to real time issues The work presented is largely based around the Occam programming language and Transputer microprocessor paradigm The HOL theorem prover based on higher order logic has mainly been used in the application of machine checked proofs The book describes research work undertaken on the collaborative UK DTI SERC funded Information Engineering Dictorate Safemos project The partners were Inmos Ltd Cambridge SRI the Oxford University Computing Laboratory and the University of Cambridge Computer Laboratory who investigated the problems of formally verifying embedded systems The most important results of the project are presented in the form of a series of interrelated chapters by project members and associated personnel In addition overviews of two other ventures with similar

objectives are included as appendices The material in this book is intended for computing science researchers and advanced industrial practitioners interested in the application of formal methods to real time safety critical systems at all levels of abstraction from requirements to hardware In addition material of a more general nature is presented which may be of interest to managers in charge of projects applying formal methods especially for safety critical systems and others who are considering their use **ADO Examples and Best Practices** William R. Vaughn,2000-05-01 ADO Active Data Objects is how the millions of Visual Basic programmers hitch onto Microsoft s amazing Universal Database Access strategy But power breeds complexity and using ADO isn t trivial This book is based on best selling author Bill Vaughn s years of experience working with front line data access developers and the development teams at Microsoft itself Now this Microsoft veteran translates his insights and collected wisdom of over a decade at Microsoft into working solutions for the common and some not so common data related problems developers face every day ADO Examples and Best Practices focuses on addressing data problems at the root through better designs and better ADO coding practices These suggestions often yield far better performance both for the developer who is able to write better code more quickly and for the application it runs faster with less resources About the Author William R Vaughn is currently a Developer Trainer at Microsoft He has taught written lectured sold supported designed coded managed and cried over mainframe and microcomputer systems and software for 28 years He has been at Microsoft since 1986 and has held positions ranging from writing teaching and managing trainers at the Microsoft University MSU to being Visual Basic Enterprise Product Manager During his last two years at Microsoft he has been with the Internal Technical Education group teaching Microsoft employees themselves While there he developed and taught courses on Visual Basic data architectures and ActiveX Data Objects ADO **ZUM '98: The Z Formal Specification Notation** Jonathan P. Bowen,Andreas Fett,Michael G. Hinchey,1998-09-16 1 In a number of recent presentations most notably at FME 96 oneofthe foremost scientists in the eld of formal methods C A R Hoare has highlighted the fact that formal methods are not the only technique for producing reliable software This seems to have caused some controversy not least amongst formal methods practitioners How can one of the founding fathers of formal methods seemingly denounce the eld of research after over a quarter of a century of support This is a question that has been posed recently by some formal methods skeptics However Prof Hoare has not abandoned formal methods He is reiterating 2 albeitmoreradically his1987view thatmorethanonetoolandnotationwillbe requiredinthepractical industrialdevelopmentoflarge scalecomplexcomputer systems and not all of these tools and notations will be or even need be formal in nature Formalmethods arenotasolution butratheroneofaselectionoftechniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget while satisfying the stated requirements After almostthree decades the time has come to view formalmethods in the context of overall industrial scale system development and their relationship to othertechniquesandmethods

Weshouldnolongerconsidertheissueofwhether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development This is a goal of ZUM 98 the 11th International Conference of Z Users held for the rst time within continental Europe in the city of Berlin Germany   <u>FME 2003: Formal Methods</u> Keijiro Araki,2003-08-27 This book constitutes the refereed proceedings of the International Symposium of Formal Methods Europe FME 2003 held in Pisa Italy in September 2003 The 44 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 144 submissions The papers are organized in topical sections on industrial issues control systems and applications communication system verfication co specification and compilers composition Java object orientation and modularity model checking parallel processes program checking and testing B method and security   **Z User Workshop, Cambridge 1994** J.P. Bowen,J.A. Hall,2012-12-06 This volume contains papers from the Eighth Z User Meeting to be held at the University of Cambridge from 29 30 June 1994 The papers cover a wide range of issues associated with Z and formal methods with particular reference to practical application These issues include education standards tool support and interaction with other design paradigms such as consideration of real time and object oriented approaches to development Among the actual topics covered are the formal specification in Z of Defence Standard 00 56 formal specification of telephone features specifying and interpreting class hierarchies in Z and software quality assurance using the SAZ method Z User Workshop Cambridge 1994 provides an important overview of current research into industrial applications of Z and will provide invaluable reading for researchers postgraduate students and also potential industrial users of Z   *ZUM '95: The Z Formal Specification Notation* Jonathan P. Bowen,1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community   *IFM'99* Keijiro Araki,Andy Galloway,Kenji Taguchi,2012-12-06 Formal methods have been established as the rigorous engineering methodology for the system development Applying formal methods to a large and complex system development often requires the modelling of different aspects of such a system For instance complex systems such as integrated avionics systems engine control software can involve functional and timing requirements that must be eventually implemented as executing code on a communicating distributed topology This book contains the papers presented at the First International Workshop on Integrated Formal Methods held at the University of York in June 1999 The conference provided a forum for the discussion of theoretical aspects of combing behavioural and state based formalisms and practical solutions to the industrial problems of this approach   <u>ZUM'97: The Z Formal Specification Notation</u> Jonathan P. Bowen,Michael G. Hinchey,David Till,1997-03-20 This book constitutes the refereed

proceedings of the 10th International Conference of Z Users ZUM 97 held in Reading UK in April 1997 The volume presents 18 revised full papers together with three invited presentations by internationally leading experts The papers are organized into topical sections on real time systems tools logic system development reactive systems refinement and applications Also a select Z bibliography by Jonathan Bowen is added All in all the book competently reports the state of the art in research and advanced applications of the Z notation **Formal Methods and Software Engineering** Jin Song Dong,Jim Woodcock,2003-10-27 This book constitutes the refereed proceedings of the 5th International Conference on Formal Engineering Methods ICFEM 2003 held in Singapore in November 2003 The 34 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on testing and validation state diagrams PVS HOL refinement hybrid systems Z Object Z Petri nets timed automata system modelling and checking and semantics and synthesis <u>High Integrity Compilation</u> Susan Stepney,1993 Illustrating a route for mathematically specifying and rigorously implementing a high assurance compiler suitable for use in developing high integrity applications this book explains the various techniques used at each stage of the development *Safe Comp 97* Peter Daniel,2012-12-06 The safe and secure operation ofcomputer systems continues to be the major issue in many applications where there is a threat to people the environment investment or goodwill Such applications include medical devices railway signalling energy distribution vehicle control and monitoring air traffic control industrial process control telecommunications systemsand manyothers This book represents the proceedings of the 16th International Conference on Computer Safety Reliability and Security held in York UK 7 10 September 1997 The conference reviews the state ofthe art experience and new trends in the areas of computer safety reliability and security It forms a platform for technology transfer between academia industry and research institutions In an expanding world wide market for safe secure and reliable computer systems SAFECOMP 97 provides an opportunity for technical developers users and legislators to exchange and review the experience to consider the best technologies now available and to identify the skills and technologies required for the future The papers were carefully selected by the Conference International Programme Committee The authors of the papers come from twelve different countries The subjects covered include safe software safety cases management development security human factors guidelines standards certification applications industrial experience formal methods models andvalidation verification and testing SAFECOMP 97 continues the successful series of SAFECOMP conferences first held in 1979 in Stuttgart SAFECOMP is organised by the European Workshop on Industrial Computer Systems Technical Committee 7 on Safety Security and Reliability EWICS TC7 *The Way of Z* Jonathan Jacky,1997 A self contained tutorial on Z for working programmers discussing practical ways to apply formal methods in real projects first published in 1997 *Testing of Communicating Systems* M. Ümit Uyar,Ali Y. Duale,Mariusz A. Fecko,2006-05-10 This volume contains the proceedings of the 18th IFIP International Conference on Testing Communicating Systems TestCom 2006 **Formal**

Languages and Computation Alexander Meduna,2014-02-11 Formal Languages and Computation Models and Their Applications gives a clear comprehensive introduction to formal language theory and its applications in computer science It covers all rudimental topics concerning formal languages and their models especially grammars and automata and sketches the basic ideas underlying the theory of computatio **Elements of Compiler Design** Alexander Meduna,2007-12-03 Maintaining a balance between a theoretical and practical approach to this important subject Elements of Compiler Design serves as an introduction to compiler writing for undergraduate students From a theoretical viewpoint it introduces rudimental models such as automata and grammars that underlie compilation and its essential phases Based on these models the author details the concepts methods and techniques employed in compiler design in a clear and easy to follow way From a practical point of view the book describes how compilation techniques are implemented In fact throughout the text a case study illustrates the design of a new programming language and the construction of its compiler While discussing various compilation techniques the author demonstrates their implementation through this case study In addition the book presents many detailed examples and computer programs to emphasize the applications of the compiler algorithms After studying this self contained textbook students should understand the compilation process be able to write a simple real compiler and easily follow advanced books on the subject Encyclopedia of Microcomputers Allen Kent,James G. Williams,2001-06-20 Achieving Synergy Between Computer Power and Human Resources to Temporal and Modal Logic Programming Languages

Programming Languages and Systems Atsushi Ohori,2003-11-12 This book constitutes the refereed proceedings of the First Asian Symposium on Programming Languages and Systems APLAS 2003 held in Beijing China in November 2003 The 24 revised full papers presented together with abstracts of 3 invited talks were carefully reviewed and selected from 75 submissions The papers are devoted to concurrency and parallelism language implementation and optimization mobile computation and security program analysis and verification program transformation and calculation programming paradigms and language design programming techniques and applications program semantics categorical and logical foundations tools and environments type theory and type systems *ADO.NET and ADO Examples and Best Practices for VB Programmers* William Vaughn,2008-01-01 ADO NET and ADO Examples and Best Practices for VB Programmers Second Edition brings the popular first edition up to date with fresh insights and tips on COM based ADOand adds a voluminous section on the new ADO NET technology Written specifically for COM based ADO developers retooling for ADO NET this is a developer s book packed with practical advice on how to make code run faster yet be easier to write and understand Veteran author William Vaughn guides you through the data access maze with working examples and numerous discussions of what works and what doesn t Derived from years of experience working with data access developers Vaughn s Best Practices are a set of techniques proven to drastically reduce overhead problems and confusion for the developer the system and the entire team While some are quite simple to implement others require considerable knowledge and forethought to enable *ZUM ... the*

Z Formal Specification Notation ,1998

Whispering the Strategies of Language: An Psychological Journey through **High Integrity Compilation A Case Study**

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