
VLISP

A Verified Implementation of Scheme

*Edited by
Joshua D. Guttman
Mitchell Wand*



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Vlisp A Verified Implementation Of Scheme

Joshua D. Guttman, Mitchell Wand



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VLISP A Verified Implementation of Scheme Joshua D. Guttman, Mitchell Wand, 2012-12-06 The VLISP project showed how to produce a comprehensively verified implementation for a programming language namely Scheme 4 15 Some of the major elements in this verification were The proof was based on the Clinger Rees denotational semantics of Scheme given in 15 Our goal was to produce a warts and all verification of a real language With very few exceptions we constrained ourselves to use the semantic specification as published The verification was intended to be rigorous but not completely formal much in the style of ordinary mathematical discourse Our goal was to verify the algorithms and data types used in the implementation not their embodiment in code See Section 2 for a more complete discussion of these issues Our decision to be faithful to the published semantic specification led to the most difficult portions of the proofs these are discussed in 13 Section 2 3 2 4 Our implementation was based on the Scheme48 implementation of Kelsey and Rees 17 This implementation translates Scheme into an intermediate level byte code language which is interpreted by a virtual machine The virtual machine is written in a subset of Scheme called PreScheme The implementation is sufficiently complete and efficient to allow it to bootstrap itself We believe that this is the first verified language implementation with these properties

Verified Software: Theories, Tools, Experiments Gary T. Leavens, Peter O'Hearn, Sriram K Rajamani, 2010-08-12 This volume contains the proceedings of the third working conference on Verified Software Theories Tools and Experiments VSTTE 2010 held in Edinburgh UK in August 2010 The 11 papers presented together with 3 invited talks were carefully revised and selected for inclusion in the book This third conference is part of the Verified Software Initiative VSI which is a 15 year international project that focuses on the scientific and technical challenges of producing verified software The goal of VSTTE 2010 was to advance the state of the art in the science and technology of software verification through the interaction of theory development tool evolution and experimental validation The accepted papers represent work on verification techniques specification languages formal calculi verification tools solutions to challenge problems software design methods reusable components refinement methodologies and requirements modeling

Compiler Construction Oege de Moor, Michael I. Schwartzbach, 2009-03-09 This book constitutes the refereed proceedings of the 18th International Conference on Compiler Construction CC 2009 held in York UK in March 2009 as part of ETAPS 2009 the European Joint Conferences on Theory and Practice of Software Following a very thorough review process 18 full research papers were selected from 72 submissions Topics covered include traditional compiler construction compiler analyses runtime systems and tools programming tools techniques for specific domains and the design and implementation of novel language constructs

FM'99 - Formal Methods Jeannette M. Wing, Jim Woodcock, Jim Davies, 2003-07-31 Formal methods are coming of age Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations A transfer of technology into the mainstream of systems development is slowly but surely taking

place FM 99 the First World Congress on Formal Methods in the Development of Computing Systems is a result and a measure of this new found maturity It brings an impressive array of industrial and applications oriented papers that show how formal methods have been used to tackle real problems These proceedings are a record of the technical symposium of FM 99 also side the papers describing applications of formal methods you will find technical reports papers and abstracts detailing new advances in formal techniques from mathematical foundations to practical tools The World Congress is the successor to the four Formal Methods Europe Symposia which in turn succeeded the four VDM Europe Symposia This session reflects an increasing openness within the international community of researchers and practitioners papers were submitted covering a wide variety of formal methods and application areas The programme committee reflects the Congress's international nature with a membership of 84 leading researchers from 38 different countries The committee was divided into 19 tracks each with its own chair to oversee the reviewing process Our collective task was a difficult one there were 259 high quality submissions from 35 different countries

Lectures on Petri Nets II: Applications Wolfgang Reisig, Grzegorz Rozenberg, 1998-11-04 The two volume set originates from the Advanced Course on Petri Nets held in Dagstuhl Germany in September 1996 beyond the lectures given there additional chapters have been commissioned to give a well balanced presentation of the state of the art in the area Together with its companion volume *Lectures on Petri Nets I Basic Models* this book is the actual reference for the area and addresses professionals students lecturers and researchers who are interested in systems design and would like to learn to use Petri nets familiar with subareas of the theory or its applications and wish to view the whole area interested in learning about recent results presented within a unified framework planning to apply Petri nets in practical situations interested in the relationship of Petri nets to other models of concurrent systems

Theorem Proving in Higher Order Logics Stefan Berghofer, Tobias Nipkow, Christian Urban, Makarius Wenzel, 2009-08-20 This book constitutes the refereed proceedings of the 22nd International Conference on Theorem Proving in Higher Order Logics TPHOLs 2009 held in Munich Germany in August 2009 The 26 revised full papers presented together with 1 proof pearl 4 tool presentations and 3 invited papers were carefully reviewed and selected from 55 submissions The papers cover all aspects of theorem proving in higher order logics as well as related topics in theorem proving and verification such as formal semantics of specification modeling and programming languages specification and verification of hardware and software formalization of mathematical theories advances in theorem prover technology as well as industrial application of theorem provers

Languages, Compilers, and Tools for Embedded Systems, 2000 **Advances in Hardware Design and Verification** Hon Li, David Probst, 1997-10-31 CHARM 97 is the ninth in a series of working conferences devoted to the development and use of formal techniques in digital hardware design and verification This series is held in collaboration with IFIP WG 10.5 Previous meetings were held in Europe every other year

ACM SIGPLAN Notices, 2005 Programming Languages and Systems, 2000 *The Proceedings of the ... SIGCSE Technical Symposium on Computer Science Education*

,1997 *20 Years of the ACM SIGPLAN Conference on Programming Language Design and Implementation* Kathryn S. McKinley,2004 Special volume of 50 selected papers with retrospectives from the original authors *Proceedings of the 1992 ACM Conference on LISP and Functional Programming* Association for Computing Machinery,1992 *American Book Publishing Record* ,1995 Implementing Certified Programming Language Tools in Dependent Type Theory Adam James Chlipala,2007 **Modular Compiler Verification** Markus Müller-Olm,1997-08-06 This is the first comprehensive book on hypermedia and the World Wide Web that includes features of the second generation systems Definitions history current technology and problems leading edge initiatives future applications all these are seen as an unfolding of a millennial communication medium that is not only serving but also involving even the non technical person in a very technical world Much of the promise of hypermedia lies in its applications to education and this receives prominence in the book The new hypermedia system HyperWave is described in detail The book s vision organization and easy to read style make it suitable as a source of information for the practitioner and the general reader It may also serve both as a reference book for researchers and as a textbook FME '97 Industrial Applications and Strengthened Foundations of Formal Methods John Fitzgerald,Cliff B. Jones,Peter Lucas,1997-09-03 This book constitutes the refereed proceedings of FME 97 the 4th International Symposium of Formal Methods Europe devoted to Industrial Applications and Strengthened Foundations of Formal Methods held in Graz Austria in September 1997 The 35 revised full papers presented in the volume were selected from a total of 94 submissions Formal methods and mathematically based techniques are increasingly recognized as a viable technology for the development and engineering of computing systems The majority of the papers in this volume describe industrial applications extensions to existing techniques or case studies papers on theoretical aspects show clear potential applicability

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Compilation and Equivalence of Imperative Objects Andrew D. Gordon,Paul D. Hankin,Søren B. Lassen,1997 Abstract We adopt the untyped imperative object calculus of Abadi and Cardelli as a minimal setting in which to study problems of compilation and program equivalence that arise when compiling object oriented languages We present both a big step and a small step substitution based operational semantics for the calculus and prove them equivalent to the closure based operational semantics given by Abadi and Cardelli Our first result is a direct proof of the correctness of compilation to a stack based abstract machine via a small step decompilation algorithm Our second result is that contextual equivalence of objects coincides with a form of Mason and Talcott s CIU equivalence the latter provides a tractable means of establishing operational equivalences Finally we prove correct an algorithm used in our prototype compiler for statically resolving method offsets This is the first study of correctness of an object oriented abstract machine and of operational equivalence for the imperative object calculus

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