

Lecture Notes

THE SEMANTICS OF DESTRUCTIVE LISP

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CENTER FOR THE STUDY
OF LANGUAGE
AND INFORMATION

Semantics Of Destructive Lisp

Association for Computing Machinery

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Semantics Of Destructive Lisp:

The Semantics of Destructive Lisp Ian A. Mason,2000 *The Semantics of Destructive Lisp* Ian Mason,1987-04-01

While the semantics of pure lisp is well understood the same cannot be said for the lisp that people actually use due to the presence of so called destructive operations in programs operations like RPLACA and RPLACD that destructively manipulate data Such destructive operations have caused considerable difficulty in bridging the gap between theory program verification and program transformation In this book Ian A Mason aims at squaring theory with practice by first developing a theory that respects practice and then improving practice within this theory Mason s theory is based on a new notion of memory structure that is adequate to model such destructive operations Within this framework he investigates various equivalence relations between expressions in first order lisp This fragment of lisp includes the destructive operations of RPLACA and RPLACD Mason then defines some important equivalence relations in lisp programs within this model theoretic framework

Throughout the work Mason makes a distinction between intensional relations and extensional relations **The Semantics of Destructive Lisp** Ian Mason,1987-04-01 Semantics Engineering with PLT Redex Matthias Felleisen,Robert Bruce Findler,Matthew Flatt,2009-07-10

The first comprehensive presentation of reduction semantics in one volume and the first tool set for such forms of semantics This text is the first comprehensive presentation of reduction semantics in one volume it also introduces the first reliable and easy to use tool set for such forms of semantics Software engineers have long known that automatic tool support is critical for rapid prototyping and modeling and this book is addressed to the working semantics engineer graduate student or professional language designer The book comes with a prototyping tool suite to develop explore test debug and publish semantic models of programming languages With PLT Redex semanticists can formulate models as grammars and reduction models on their computers with the ease of paper and pencil The text first presents a framework for the formulation of language models focusing on equational calculi and abstract machines then introduces PLT Redex a suite of software tools for expressing these models as PLT Redex models Finally experts describe a range of models formulated in Redex PLT Redex comes with the PLT Scheme implementation available free at <http://www.plt-scheme.org> Readers can download the software and experiment with Redex as they work their way through the book Higher Order Operational

Techniques in Semantics Andrew D. Gordon,Andrew M. Pitts,1998-01-22 A 1998 collection of original articles by leading researchers in area of programming languages *Lisp in Small Pieces* Christian Queinnec,2003-12-04

This is a comprehensive account of the semantics and the implementation of the whole Lisp family of languages namely Lisp Scheme and related dialects It describes 11 interpreters and 2 compilers including very recent techniques of interpretation and compilation The book is in two parts The first starts from a simple evaluation function and enriches it with multiple name spaces continuations and side effects with commented variants while at the same time the language used to define these features is reduced to a simple lambda calculus Denotational semantics is then naturally introduced The second part focuses

more on implementation techniques and discusses precompilation for fast interpretation threaded code or bytecode compilation towards C Some extensions are also described such as dynamic evaluation reflection macros and objects This will become the new standard reference for people wanting to know more about the Lisp family of languages how they work how they are implemented what their variants are and why such variants exist The full code is supplied and also available over the Net A large bibliography is given as well as a considerable number of exercises Thus it may also be used by students to accompany second courses on Lisp or Scheme

Foundations of Logic and Functional Programming Mauro Boscarol, Luigia Carlucci Aiello, 1988-04-27 This volume consists of some of the papers that were delivered during the workshop on Foundations of Logic and Functional Programming held in Trento Italy from December 15th to 19th 1986 The meeting centered on themes and trends in Functional Programming and in Logic Programming This book contains five papers contributed by the invited speakers and five selected contributions

The SECD Microprocessor Brian T. Graham, 2012-12-06 This is a milestone in machine assisted microprocessor verification Gordon 20 and Hunt 32 led the way with their verifications of simple designs Cohn 12 13 followed this with the verification of parts of the VIPER microprocessor This work illustrates how much these and other pioneers achieved in developing tractable models scalable tools and a robust methodology A condensed review of previous research emphasising the behavioural model underlying this style of verification is followed by a careful and remarkably readable account of the SECD architecture its formalisation and a report on the organisation and execution of the automated correctness proof in HOL This monograph reports on Graham's MSc project demonstrating that in the right hands the tools and methodology for formal verification can and therefore should now be applied by someone with little previous expertise in formal methods to verify a non trivial microprocessor in a limited timescale This is not to belittle Graham's achievement the production of this proof working as Graham did from the previous literature goes well beyond a typical MSc project The achievement is that with this exposition to hand an engineer tackling the verification of similar microprocessor designs will have a clear view of the milestones that must be passed on the way and of the methods to be applied to achieve them

Proceedings of the 1992 ACM Conference on LISP and Functional Programming Association for Computing Machinery, 1992

Metamathematics, Machines and Gödel's Proof N. Shankar, 1997-01-30 Describes the use of computer programs to check several proofs in the foundations of mathematics

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