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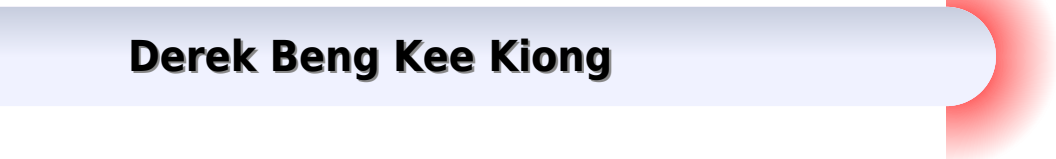
Realistic Compiler Generation

Peter Lee

The MIT Press

Realistic Compiler Generation

Derek Beng Kee Kiong



Realistic Compiler Generation:

Realistic Compiler Generation Peter Lee, 1989 In this book Peter Lee provides a complete description and survey of the field of semantics based compiler generation and presents a new method for expressing the formal semantics of programming languages that allows realistic compilers to be generated automatically The method Lee describes has two main advantages over previous methods First it allows compilers to be generated automatically The compilers are realistic in the sense that they compile programs as efficiently as hand crafted compilers do and the object programs they produce run as efficiently as the object programs produced by hand crafted compilers The second advantage is that it makes it easier to comprehend and write the semantics than other methods The book demonstrates a working compiler generator called MESS which is used to generate a realistic compiler for a Pascal like language The generated compiler is then compared with several hand crafted compilers and shown to have at least comparable and in some cases superior performance Peter Lee is Assistant Professor of Computer Science at Carnegie Mellon University Realistic Compiler Generation is included in the series Foundations of Computing edited by Michael Garey and Albert Meyer Partial Evaluation and Automatic Program

Generation Neil D. Jones, Carsten K. Gomard, Peter Sestoft, 1993 Partial evaluation reconciles generality with efficiency by providing automatic specialization and optimization of programs This book covers the entire field of partial evaluation provides simple and complete algorithms and demonstrates that specialization can increase efficiency Compiler Construction Peter A. Fritzson, 1994-03-23 The International Conference on Compiler Construction provides a forum for presentation and discussion of recent developments in the area of compiler construction language implementation and language design Its scope ranges from compilation methods and tools to implementation techniques for specific requirements on languages and target architectures It also includes language design and programming environment issues which are related to language translation There is an emphasis on practical and efficient techniques This volume contains the papers selected for presentation at CC 94 the fifth International Conference on Compiler Construction held in Edinburgh U K in April 1994 *Compiler Construction* Uwe Kastens, Peter Pfahler, 1992-09-23 The International Workshop on Compiler

Construction provides a forum for the presentation and discussion of recent developments in the area of compiler construction Its scope ranges from compilation methods and tools to implementation techniques for specific requirements of languages and target architectures This volume contains the papers selected for presentation at the 4th International Workshop on Compiler Construction CC 92 held in Paderborn Germany October 5 7 1992 The papers present recent developments on such topics as structural and semantic analysis code generation and optimization and compilation for parallel architectures and for functional logical and application languages **Advanced Compiler Design**

Implementation Steven Muchnick, 1997-08 Computer professionals who need to understand advanced techniques for designing efficient compilers will need this book It provides complete coverage of advanced issues in the design of compilers

with a major emphasis on creating highly optimizing scalar compilers It includes interviews and printed documentation from designers and implementors of real world compilation systems **Compiler Technology** Derek Beng Kee Kiong,2012-12-06

Compiler technology is fundamental to computer science since it provides the means to implement many other tools It is interesting that in fact many tools have a compiler framework they accept input in a particular format perform some processing and present output in another format Such tools support the abstraction process and are crucial to productive systems development The focus of Compiler Technology Tools Translators and Language Implementation is to enable quick development of analysis tools Both lexical scanner and parser generator tools are provided as supplements to this book since a hands on approach to experimentation with a toy implementation aids in understanding abstract topics such as parse trees and parse conflicts Furthermore it is through hands on exercises that one discovers the particular intricacies of language implementation Compiler Technology Tools Translators and Language Implementation is suitable as a textbook for an undergraduate or graduate level course on compiler technology and as a reference for researchers and practitioners interested in compilers and language implementation Computing Handbook, Third Edition Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07

Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century

Semantics, Applications, and Implementation of Program Generation Walid Taha,2003-06-30 This volume constitutes the proceedings of the second International Workshop on the Semantics Applications and Implementation of Program Generation SAIG 2001 held on 6 September 2001 in Florence Italy SAIG 2001 was held as an ACM SIGPLAN workshop co located with the International Conference on Principles Logics and Implementations of High level Programming Languages PLI As the commercial production of software systems moves toward being a traditional industry automation will necessarily play a more substantial role in this industry just as it plays a key role in the production of traditional commodities SAIG aims at promoting the development and the application of foundational techniques for supporting automatic program generation A key goal of SAIG is to provide a unique forum for both theoreticians and practitioners to present their results

and ideas to an audience from a diverse background This year we are fortunate to have three important invited speakers Krzysztof Czarnecki DaimlerChrysler Tim Sheard OGI School of Science and Engineering and Mitchell Wand Northeastern University The proceedings include abstracts of the invited talks and an invited paper by Tim Sheard Seven technical papers and two position papers were presented at SAIG 2001

Compiler Compilers Dieter Hammer, 1991-02-12 Advances and problems in the field of compiler compilers are considered in this volume which presents the proceedings of the third in a series of biannual workshops on compiler compilers Selected papers address the topics of requirements properties and theoretical aspects of compiler compilers as well as tools and metatools for software engineering The 23 papers cover a wide spectrum in the field of compiler compilers ranging from overviews of new compiler compilers for generating quality compilers to special problems of code generation and optimization Aspects of compilers for parallel systems and knowledge based development tools are also discussed

THE AUTOMATIC GENERATION OF REALISTIC COMPILERS FROM HIGH-LEVEL SEMANTIC DESCRIPTIONS. Peter Lee, 1987 and furthermore lead to specifications that are unnecessarily hard to comprehend and debug

Dynamic Logic David Harel, Dexter Kozen, Jerzy Tiuryn, 2000-09-29 This book provides the first comprehensive introduction to Dynamic Logic Among the many approaches to formal reasoning about programs Dynamic Logic enjoys the singular advantage of being strongly related to classical logic Its variants constitute natural generalizations and extensions of classical formalisms For example Propositional Dynamic Logic PDL can be described as a blend of three complementary classical ingredients propositional calculus modal logic and the algebra of regular events In First Order Dynamic Logic DL the propositional calculus is replaced by classical first order predicate calculus Dynamic Logic is a system of remarkable unity that is theoretically rich as well as of practical value It can be used for formalizing correctness specifications and proving rigorously that those specifications are met by a particular program Other uses include determining the equivalence of programs comparing the expressive power of various programming constructs and synthesizing programs from specifications This book provides the first comprehensive introduction to Dynamic Logic It is divided into three parts The first part reviews the appropriate fundamental concepts of logic and computability theory and can stand alone as an introduction to these topics The second part discusses PDL and its variants and the third part discusses DL and its variants Examples are provided throughout and exercises and a short historical section are included at the end of each chapter

Semantics of Programming Languages Carl A. Gunter, 1992 Semantics of Programming Languages exposes the basic motivations and philosophy underlying the applications of semantic techniques in computer science It introduces the mathematical theory of programming languages with an emphasis on higher order functions and type systems Designed as a text for upper level and graduate level students the mathematically sophisticated approach will also prove useful to professionals who want an easily referenced description of fundamental results and calculi Basic connections between computational behavior denotational semantics and the equational logic of functional programs are thoroughly and

rigorously developed Topics covered include models of types operational semantics category theory domain theory fixed point denotational semantics full abstraction and other semantic correspondence criteria types and evaluation type checking and inference parametric polymorphism and subtyping All topics are treated clearly and in depth with complete proofs for the major results and numerous exercises

Logic and Information Flow Jan Eijck, Albert Visser, 1994 The logic of information flow has applications in both computer science and natural language processing and is a growing area within mathematical and philosophical logic

From Logic to Logic Programming Kees Doets, 1994 This mathematically oriented introduction to the theory of logic programming presents a systematic exposition of the resolution method for propositional first order and Horn clause logics together with an analysis of the semantic aspects of the method It is through the inference rule of resolution that both proofs and computations can be manipulated on computers and this book contains elegant versions and proofs of the fundamental theorems and lemmas in the proof theory of logic programming Advanced topics such as recursive complexity and negation as failure and its semantics are covered and streamlined setups for SLD and SLDNF resolution are described No other book treats this material in such detail and with such sophistication Doets provides a novel approach to resolution that is applied to the first order case and the case of positive logic programs In contrast to the usual approach the concept of a resolvent is defined nonconstructively without recourse to the concept of unification allowing the soundness and completeness proofs to be carried out in a more economic way Other new material includes computability results dealing with analytical hierarchy results on infinite derivations and an exposition on general logic programs using 3 valued logic

Algebraic Semantics of Imperative Programs Joseph Goguen, Grant Malcolm, 1996 Algebraic Semantics of Imperative Programs presents a self contained and novel executable introduction to formal reasoning about imperative programs The authors primary goal is to improve programming ability by improving intuition about what programs mean and how they run The semantics of imperative programs is specified in a formal implemented notation the language OBJ this makes the semantics highly rigorous yet simple and provides support for the mechanical verification of program properties OBJ was designed for algebraic semantics its declarations introduce symbols for sorts and functions its statements are equations and its computations are equational proofs Thus an OBJ program is an equational theory and every OBJ computation proves some theorem about such a theory This means that an OBJ program used for defining the semantics of a program already has a precise mathematical meaning Moreover standard techniques for mechanizing equational reasoning can be used for verifying axioms that describe the effect of imperative programs on abstract machines These axioms can then be used in mechanical proofs of properties of programs Intended for advanced undergraduates or beginning graduate students Algebraic Semantics of Imperative Programs contains many examples and exercises in program verification all of which can be done in OBJ

Circuit Complexity and Neural Networks Ian Parberry, 1994 Neural networks usually work adequately on small problems but can run into trouble when they are scaled up to problems involving large amounts of input

data Circuit Complexity and Neural Networks addresses the important question of how well neural networks scale that is how fast the computation time and number of neurons grow as the problem size increases It surveys recent research in circuit complexity a robust branch of theoretical computer science and applies this work to a theoretical understanding of the problem of scalability Most research in neural networks focuses on learning yet it is important to understand the physical limitations of the network before the resources needed to solve a certain problem can be calculated One of the aims of this book is to compare the complexity of neural networks and the complexity of conventional computers looking at the computational ability and resources neurons and time that are a necessary part of the foundations of neural network learning Circuit Complexity and Neural Networks contains a significant amount of background material on conventional complexity theory that will enable neural network scientists to learn about how complexity theory applies to their discipline and allow complexity theorists to see how their discipline applies to neural networks

Computability and Complexity Neil D. Jones, 1997 Computability and complexity theory should be of central concern to practitioners as well as theorists Unfortunately however the field is known for its impenetrability Neil Jones's goal as an educator and author is to build a bridge between computability and complexity theory and other areas of computer science especially programming In a shift away from the Turing machine and Godel number oriented classical approaches Jones uses concepts familiar from programming languages to make computability and complexity more accessible to computer scientists and more applicable to practical programming problems According to Jones the fields of computability and complexity theory as well as programming languages and semantics have a great deal to offer each other Computability and complexity theory have a breadth depth and generality not often seen in programming languages The programming language community meanwhile has a firm grasp of algorithm design presentation and implementation In addition programming languages sometimes provide computational models that are more realistic in certain crucial aspects than traditional models New results in the book include a proof that constant time factors do matter for its programming oriented model of computation In contrast Turing machines have a counterintuitive constant speedup property that almost any program can be made to run faster by any amount Its proof involves techniques irrelevant to practice Further results include simple characterizations in programming terms of the central complexity classes PTIME and LOGSPACE and a new approach to complete problems for NLOGSPACE PTIME NPTIME and PSPACE uniformly based on Boolean programs Foundations of Computing series

Basic Category Theory for Computer Scientists Benjamin C. Pierce, 1991-08-07 Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science especially in programming language semantics domain theory and concurrency where it is already a standard language of discourse Assuming a

minimum of mathematical preparation Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Four case studies illustrate applications of category theory to programming language design semantics and the solution of recursive domain equations A brief literature survey offers suggestions for further study in more advanced texts Contents Tutorial Applications Further Reading

Computing Handbook Allen Tucker, Teofilo Gonzalez, Heikki Topi, Jorge Diaz-Herrera, 2022-05-29 This two volume set of the Computing Handbook Third Edition previously the Computer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today's world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management

The Essence of Computation Torben Mogensen, David Schmidt, I. Hal Sudborough, 2003-07-01 By presenting state of the art aspects of the theory of computation this book commemorates the 60th birthday of Neil D Jones whose scientific career parallels the evolution of computation theory itself The 20 reviewed research papers presented together with a brief survey of the work of Neil D Jones were written by scientists who have worked with him in the roles of student colleague and in one case mentor In accordance with

the Festschrift's subtitle the papers are organized in parts on computational complexity program analysis and program transformation

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