

Semantics-Directed Compiler Generation*

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Abstract

This dissertation concerns the design and implementation of SEMCOM, an interpreter generator for arbitrary languages, which compiles a two-level operational semantics (in either big- or small-step style). Input to SEMCOM is expressed in a purpose-designed Semantic Description Language (SDL). An SDL file contains the definition of an evaluation and typing relation, and can express type systems up to polymorphism. The SEMCOM compiler performs a sequence of analyses on this input, and generates a lexer, parser, and interpreter (in both OCaml and F#) for the user's language. SDL itself is typed, and a number of consistency checks are performed, producing comprehensive debugging output and useful error messages. Non-deterministic semantics are supported.

1 Introduction

In essence, computation has always been concerned with automation, and this takes place at many different levels. Rather than building systems directly in hardware, we have a processor that provides a convenient *abstraction* – that is to say, we can concern ourselves with the movement and processing of binary data, rather than the control of electrical signals. Furthermore, we do not write general purpose programs in assembler, but use an *abstracted* language in which we can talk about more meaningful concepts, such as objects, functions, and so forth.

The concept of abstraction does not end here, however. A programming language is not just a shorthand for sequences of assembler instructions – it has an underlying meaning, which is in some sense separate from the implementation. Over the course of time, our concept of the *semantics* of a language has developed, so that we now have an underlying mathematical framework with which to describe the execution of a program. In particular, an *operational* semantics is a specification of an abstract machine (an inductively defined transition relation), that explains the execution of a program as a sequence of syntactic transformations. Given this formal description of a programming language, is it not natural to ask whether a compiler could be generated automatically?

This is not as far-fetched as it sounds. Consider the humble parser. Before the theory of formal context-free grammars was understood, the programmer had to code their lexing and parsing routines by hand. Now, we have tools such as yacc, which will generate an efficient parser from a BNF-style description of a grammar. Although this is a considerably more constrained problem than the one just posed, it shows that useful tools can arise from the

*In this document, the term *compiler generator* is used to refer more generally to the automated generation of compilers, interpreters and abstract machines.

Semantics Directed Compiler Generation

**Neil D. Jones, Carsten K. Gomard, Peter
Sestoft**



Semantics Directed Compiler Generation:

Semantics-Directed Compiler Generation N. D. Jones, 2014-01-15 **Semantics-Directed Compiler Generation**,
Semantics-directed Compiler Generation Neil D. Jones, 1980 *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 Generators** Mads Tofte, 2012-12-06 The Origin of this monograph is a course entitled Semantics directed Compiler Generation which Professor Neil D Jones gave in 1982 at Copenhagen University where I was a student at the time In this course he described a compiler generator called CERES which he was developing I immediately felt attracted to the unusual combination of mathematical reasoning about compilers and the small intricate building blocks that made up the running system As I came to understand the system I discovered that within the existing mathematical framework one could express compiler generation as a special case of compilation this led to a specification of a compiler generator which was bootstrapped on itself resulting in a machine generated compiler generator The purpose of this monograph is to describe the CERES system we produced in 1983 84 and compare it with other systems including more recent ones Also it is as relevant today as it was then to discuss the role of compiler generators as an aid in the design and implementation of programming languages this I do in Chap 5 This monograph is a strongly revised version of the candidate Mathematical Foundations of Programming Language Semantics Michael Main, Austin Melton, Michael Mislove, David Schmidt, 1988-03-09 This volume is the proceedings of the 3rd Workshop on the Mathematical Foundations of Programming Language Semantics held at Tulane University New Orleans Louisiana April 8 10 1987 The 1st Workshop was at Kansas State University Manhattan Kansas in April 1985 see LNCS 239 and the 2nd Workshop with a limited number of participants was at Kansas State in April 1986 It was the intention of the organizers that the 3rd Workshop survey as many areas of the Mathematical Foundations of Programming Language Semantics as reasonably possible The Workshop attracted 49 submitted papers from which 28 papers were chosen for presentation The papers ranged in subject from category theory and Lambda calculus to the structure theory of domains and power domains to implementation issues surrounding semantics *Semantics and Algebraic Specification* Jens Palsberg, 2009-09-19 This Festschrift volume published to honor Peter D Mosses on the occasion of his 60th birthday includes 17 invited chapters by many of Peter's coauthors collaborators close colleagues and former students Peter D Mosses is known for his many contributions in the area of formal program semantics In particular he developed action semantics a combination of denotational operational and algebraic semantics The presentations given on a symposium in his honor in Udine Italy on September 10 2009 were on subjects related to Peter's many technical contributions and they were a tribute to his lasting impact on the field Topics addressed by the papers are action semantics security policy design colored petri

nets order sorted parameterization and induction object oriented action semantics structural operational semantics model transformations the scheme programming language type checking action algebras and denotational semantics

Conference Record of the Eighteenth Annual ACM Symposium on Principles of Programming Languages, 1991

Programming Language Implementation and Logic Programming Jan Małuszyński, Martin Wirsing, 1991-08-14 This volume contains the papers which have been accepted for presentation at the Third International Symposium on Programming Language Implementation and Logic Programming PLILP 91 held in Passau Germany August 26-28 1991. The aim of the symposium was to explore new declarative concepts, methods and techniques relevant for the implementation of all kinds of programming languages, whether algorithmic or declarative ones. The intention was to gather researchers from the fields of algorithmic programming languages as well as logic, functional and object oriented programming. This volume contains the two invited talks given at the symposium by H. Ait Kaci and D. B. MacQueen, 32 selected papers and abstracts of several system demonstrations. The proceedings of PLILP 88 and PLILP 90 are available as Lecture Notes in Computer Science Volumes 348 and 456.

Methods and Tools for Compiler Construction B. Lorho, 1984 For a long time compiler construction was considered an operation to be carried out by only a few skilled specialists. However, over the past decade numerous theoretical advances have led to a methodology of compiler writing as well as to tools for automatic and semi-automatic compiler construction. This book is the result of an advanced course sponsored by the Commission of the European Communities and the Institut National de Recherche en Informatique et en Automatique. The course Methods and Tools for Compiler Construction was held in Rocquencourt in December 1983. The volume places its emphasis on specific areas where significant improvements have been made, including attribute grammars, compilation from semantic definitions, code generation and optimization and Ada compiling.

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Table of Contents Semantics Directed Compiler Generation

1. Understanding the eBook Semantics Directed Compiler Generation
 - The Rise of Digital Reading Semantics Directed Compiler Generation
 - Advantages of eBooks Over Traditional Books
2. Identifying Semantics Directed Compiler Generation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Semantics Directed Compiler Generation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Semantics Directed Compiler Generation
 - Personalized Recommendations
 - Semantics Directed Compiler Generation User Reviews and Ratings
 - Semantics Directed Compiler Generation and Bestseller Lists
5. Accessing Semantics Directed Compiler Generation Free and Paid eBooks

- Semantics Directed Compiler Generation Public Domain eBooks
- Semantics Directed Compiler Generation eBook Subscription Services
- Semantics Directed Compiler Generation Budget-Friendly Options
- 6. Navigating Semantics Directed Compiler Generation eBook Formats
 - ePub, PDF, MOBI, and More
 - Semantics Directed Compiler Generation Compatibility with Devices
 - Semantics Directed Compiler Generation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semantics Directed Compiler Generation
 - Highlighting and Note-Taking Semantics Directed Compiler Generation
 - Interactive Elements Semantics Directed Compiler Generation
- 8. Staying Engaged with Semantics Directed Compiler Generation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semantics Directed Compiler Generation
- 9. Balancing eBooks and Physical Books Semantics Directed Compiler Generation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semantics Directed Compiler Generation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Semantics Directed Compiler Generation
 - Setting Reading Goals Semantics Directed Compiler Generation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Semantics Directed Compiler Generation
 - Fact-Checking eBook Content of Semantics Directed Compiler Generation
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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