

Markus Müller-Olm

# Modular Compiler Verification

*A Refinement-Algebraic Approach  
Advocating Stepwise Abstraction*



Springer

# Modular Compiler Verification A Refinementalgebraic Approach Advocating Stepwise Abstraction

**Michael Hoelscher**



## **Modular Compiler Verification A Refinement Algebraic Approach Advocating Stepwise Abstraction:**

**Modular Compiler Verification** Markus Müller-Olm, 2014-03-12 This book presents the verified design of a code generator translating a prototypic real time programming language to an actual microprocessor the Inmos Transputer Unlike most other work on compiler verification and with particular emphasis on modularity it systematically covers correctness of translation down to actual machine code a necessity in the area of safety critical systems The formal framework provided as well as the novel proof engineering ideas incorporated in the verified code generator are also of relevance for software design in general

**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

**Leveraging Applications of Formal Methods** Tiziana Margaria, Bernhard Steffen, 2006-11-02 This book constitutes the thoroughly refereed post proceedings of the First International Symposium on Leveraging Applications of Formal Methods ISoLA 2004 held in Paphos Cyprus in October November 2004 The 12 revised full papers discuss issues related to the adoption and use of rigorous tools and methods for the specification analysis verification certification construction test and maintenance of systems

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

Formal Methods and Software Engineering Chris George, Huaikou Miao, 2003-06-30 This book constitutes the refereed proceedings of the 4th International Conference on Formal Engineering methods ICFEM 2002 held in Shanghai China in October 2002 The 43 revised full papers and 16 revised short papers presented together with 5 invited contributions were carefully reviewed and selected from a total of 108 submissions The papers are organized in topical sections on component engineering and software architecture method integration specification techniques and languages tools and environments refinement applications validation and verification UML and semantics

*Programming Languages and Systems* Gert Smolka, 2003-06-26 ETAPS 2000 was the third instance of the European Joint Conferences on Theory and Practice of Software ETAPS is an annual federated conference that was

established in 1998 by combining a number of existing and new conferences This year it comprised ve conferences FOSSACS FASE ESOP CC TACAS ve satellite workshops CBS CMCS CoFI GRATRA INT seven invited lectures a panel discussion and ten tutorials The events that comprise ETAPS address various aspects of the system de lopment process including speci cation design implementation analysis and improvement The languages methodologies and tools which support these tivities are all well within its scope Di erent blends of theory and practice are represented with an inclination towards theory with a practical motivation on one hand and soundly based practice on the other Many of the issues involved in software design apply to systems in general including hardware systems and the emphasis on software is not intended to be exclusive

**FM'99 - Formal Methods** Jeannette M. Wing,Jim Woodcook,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 ofFM 99 alo side the papers describingapplicationsofformalmethods youwill ndtechnical reports papers andabstracts detailing new advances in formaltechniques 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 s session re ects 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 programmecommittee re ects the Congress s international nature with a membership of 84 leading researchersfrom 38 di erent countries The comm tee was divided into 19 tracks each with its own chair to oversee the reviewing process Our collective task was a di cult one there were 259 high quality s missions from 35 di erent countries Formal Methods and Software Engineering ,2003

**Programming Languages and Systems** ,2000 **Forthcoming Books** Rose Arny,1998 *Books In Print 2004-2005* Ed Bowker Staff,Staff Bowker, Ed,2004 **Mathematical Reviews** ,1998 American Book Publishing Record ,1997

The British National Bibliography Arthur James Wells,1998 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,1997-07 International Books in Print ,1986 Verzeichnis lieferbarer Bücher ,2002 Modular Specification and Verification of Object-Oriented Programs Peter Müller,2002-01-23

Software systems play an increasingly important role in modern societies Smart cards for personal identi cation e banking software controlled me cal tools airbags in cars and autopilots for aircraft control are only some examples that illustrate how everyday life depends on the good behavior of software Consequently techniques and methods for the development of hi quality dependable software systems are a central research topic in computer science A fundamental approach to this area is

to use formal specification and verification. Specification languages allow one to describe the crucial properties of software systems in an abstract, mathematically precise and implementation independent way. By formal verification one can then prove that an implementation really has the desired specified properties. Although this formal methods approach has been a research topic for more than 30 years, its practical success is still restricted to domains in which development costs are of minor importance. Two aspects are crucial to widen the application area of formal methods. Formal specification techniques have to be smoothly integrated into the software and program development process. The techniques have to be applicable to reusable software components. This way the quality gain can be exploited for more than one system, thereby justifying the higher development costs. Starting from these considerations, Peter Muller has developed new techniques for the formal specification and verification of object-oriented software. The specification techniques are declarative and implementation independent. They can be used for object-oriented design and programming.

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