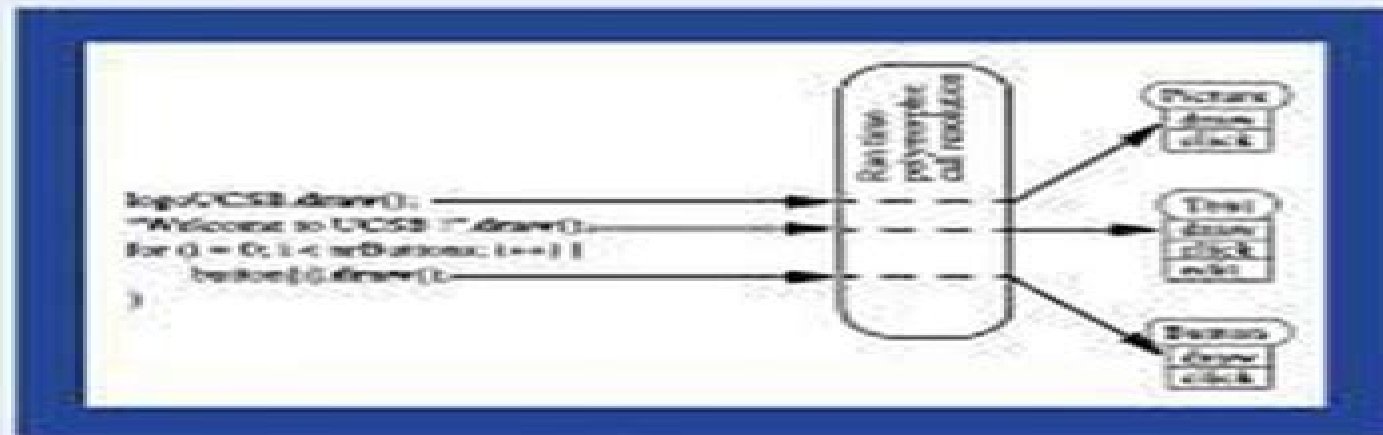# EFFICIENT POLYMORPHIC CALLS

by

Karel Driesen

foreword by

Urs Hölzle

Efficient Polymorphic Calls

Andrew W. Appel

Efficient Polymorphic Calls:

Efficient Polymorphic Calls Karel Driesen,2001-02-28 The implementation of object oriented languages has been an active topic of research since the 1960s when the first Simula compiler was written The topic received renewed interest in the early 1980s with the growing popularity of object oriented programming languages such as c and Smalltalk and got another boost with the advent of Java Polymorphic calls are at the heart of object oriented languages and even the first implementation of Simula 67 contained their classic implementation via virtual function tables In fact virtual function tables predate even Simula for example Ivan Sutherland s Sketchpad drawing editor employed very similar structures in 1960 Similarly during the 1970s and 1980s the implementers of Smalltalk systems spent considerable efforts on implementing polymorphic calls for this dynamically typed language where virtual function tables could not be used Given this long history of research into the implementation of polymorphic calls and the relatively mature standing it achieved over time why one might ask should there be a new book in this field The answer is simple Both software and hardware have changed considerably in recent years to the point where many assumptions underlying the original work in this field are no longer true In particular virtual function tables are no longer sufficient to implement polymorphic calls even for statically typed languages for example Java s interface calls cannot be implemented this way Furthermore today s processors are deeply pipelined and can execute instructions out of order making it difficult to predict the execution time of even simple code sequences **Software and Hardware Techniques for Efficient Polymorphic Calls** Karel Driesen,1999 **Advanced Debugging Methods** Raimondas Lencevicius,2012-09-07 Object relationships in modern software systems are becoming increasingly numerous and complex and program errors due to violations of object relationships are difficult to detect Programmers need new tools that allow them to explore objects in a large system more efficiently and to detect broken object relationships instantaneously Such tools incorporate approaches used in such areas as data visualization pattern matching and extraction database querying active databases and rule based programming The query based debugging approach developed by the author of this book is another powerful yet efficient tool to be added to the developer s tool chest Advanced Debugging Methods presents practice and tools for debugging computer programs This book proposes new powerful approaches that simplify the daunting task of debugging complex software systems Although debugging has been addressed in numerous research papers many of its methods have yet to be explored in a book length format This book helps to fill this gap by presenting an overview of existing debugging tools with motivating examples and case studies as well as presenting new state of the art debugging methods Advanced Debugging Methods will be of use to software developers looking for tools to be applied in cutting edge practice system architects looking at the relationship between software design and debugging tools and programming language researchers looking for new ideas in run time tool implementation as well as detailed descriptions of advanced implementations and university professors and graduate students who will use this book as

supplementary reading for graduate courses in programming tools language implementation and advanced object oriented systems Advanced Debugging Methods is also a handy reference of currently existing debugging methodologies as well as a springboard for cutting edge research to simplify thedifficult task of debugging and to facilitate the development of more robust software systems **CodeQL for Secure and Efficient Software Analysis** William Smith,2025-07-24 CodeQL for Secure and Efficient Software Analysis CodeQL for Secure and Efficient Software Analysis is an authoritative and comprehensive guide for software engineers security practitioners and advanced developers seeking to master CodeQL a groundbreaking static analysis engine that treats code as data Beginning with a thorough foundation in CodeQL s architecture and its essential place within modern security workflows the book examines the principles of static code analysis the nuances of supported programming languages and the robust database mechanisms that drive scalable query based inspection Readers are seamlessly introduced to both local and cloud based environments enriched by critical comparisons with alternative analysis tools to facilitate informed decision making Delving deeper the book provides a meticulous exploration of QL CodeQL s powerful query language From foundational syntax and logical structures to advanced topics such as dataflow analysis taint tracking modular query design and performance optimization it equips readers with practical skills for constructing high performance reusable queries The chapters address real world needs including vulnerability identification and remediation automated discovery of code quality issues and continuous integration within secure development pipelines Case studies and best practices illustrate how CodeQL uncovers significant bugs and inefficiencies offering actionable insights at every turn Beyond fundamental techniques this volume caters to enterprise scale application with topics ranging from distributed query execution and business intelligence integration to governance compliance and incident response It empowers organizations to operationalize CodeQL in diverse decentralized and regulated development ecosystems Capping off with a forward looking analysis of emerging trends such as the convergence of machine learning and program analysis automated query synthesis and the future landscape of secure software this book stands as an indispensable resource for anyone committed to advancing software security and quality through programmatic analysis

Euro-Par' 99 Parallel Processing Patrick Amestoy,Philippe Berger,Michel Daydé,Iain Duff,Valerie Fraysse,Luc Giraud,Daniel Ruiz,1999-08-20 Euro Parisaninternationalconferencededicatedtothepromotionandadvan ment of all aspects of parallel computing The major themes can be divided into the broad categories of hardware software algorithms and applications for p allel computing The objective of Euro Par is to provide a forum within which to promote the development of parallel computing both as an industrial te nique and an academic discipline extending the frontier of both the state of the art and the state of the practice This is particularly important at a time when parallel computing is undergoing strong and sustained development and experiencing real industrial take up The main audience for and participants in Euro Parareseenasresearchersinacademicdepartments governmentlabora ries and industrial organisations Euro Par s objective is

to become the primary choice of such professionals for the presentation of new results in their specic areas Euro Par is also interested in applications which demonstrate the e tiveness of the main Euro Par themes There is now a permanent Web site for the series http brahms fmi uni passau de cl europar where the history of the conference is described Euro Par is now sponsored by the Association of Computer Machinery and the International Federation of Information Processing Euro Par 99 The format of Euro Par 99follows that of the past four conferences and consists of a number of topics eachindividually monitored by a committee of four There were originally 23 topics for this year s conference The call for papers attracted 343 submissions of which 188 were accepted Of the papers accepted 4 were judged as distinguished 111 as regular and 73 as short papers   **Logic-Based Program Synthesis and Transformation** Michael Hanus,2009-02-27 This book constitutes the thoroughly refereed post conference proceedings of the 18th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2008 held in Valencia Spain during July 17 18 2008 The 11 revised full papers presented together with one invited talk were carefully reviewed and selected for inclusion in the book LOPSTR traditionally solicits papers in the areas of specification synthesis verification transformation analysis optimization composition security reuse applications and tools component based software development software architectures agent based software development and program refinement   *ECOOP '91 European Conference on Object-Oriented Programming* Pierre America,1991-07-03 ECOOP 91 is the fifth annual European Conference on Object Oriented Programming From their beginning the ECOOP conferences have been very successful as a forum of high scientific quality where the newest devel opments connected to object oriented programming and related areas could be presented and discussed Over the last few years object oriented technology has gained widespread use and considerable popularity In parallel with this the field has matured scientifically but there is still a lot of room for new ideas and for hot debates over fundamental issues as these proceedings show The 22 papers in this volume were selected by the programme committee from 129 submissions Important issues discussed in the contributions are language design specification databases concurrency types and software development   **ECOOP '95 - Object-Oriented Programming** Walter Olthoff,2003-05-16 For the ninth time now the European Conference on Object Oriented P gramming provides a mid summer gathering place for researchers practitioners students and newcomers in the field of object technology Despite fierce c petition from an increasing number of attractive conferences on object related topics ECOOP has successfully positioned itself as the premier European ject technology conference One reason is without doubt the composition of the conference week and the nature of its events Running in parallel on the first two days a comprehensive tutorial program and a very selective workshop program are offered to attendees This is followed by a three day technical p gram organized in a single track providing a highly communicative atmosphere of scientific exchange and learning Overlapping with these events are a two day industrial exhibition and a two day opportunity for non industrial system dev opers to demonstrate their software Thus ECOOP is not just a conference on programming but an event touching

on the full spectrum of object technology This volume constitutes the proceedings of the Ninth European Conference on Object Oriented Programming ECOOP held in Aarhus Denmark August 7 11 1995 Previous ECOOP conferences were held in Paris France Oslo Norway Nottingham England Ottawa Canada jointly with OOPSLA Geneva Switzerland Utrecht the Netherlands Kaiserslautern Germany and Bologna Italy Object technology continues to increase its impact on the corporate world **Mastering JVM Performance Tuning and Optimization: Unlock the Secrets of Expert-Level Skills** Larry Jones,2025-03-08 Unlock the full potential of your Java applications with Mastering JVM Performance Tuning and Optimization Unlock the Secrets of Expert Level Skills This essential resource is crafted for experienced programmers and software engineers who are seeking to elevate their understanding of the Java Virtual Machine Delve into the architectural intricacies optimize memory management and fine tune garbage collection processes equipping yourself with the skills required to achieve unmatched application performance This meticulously structured guide offers comprehensive insights into advanced profiling techniques concurrency enhancements and the art of bytecode optimization By leveraging the power of the JVM s Just In Time compiler and exploring efficient classloader strategies you can significantly reduce latency and enhance execution speed The book also provides an in depth exploration of JVM flags and options empowering you to tailor performance settings to your application s specific needs Integrating real world troubleshooting methods and evidence based best practices this book ensures that you are prepared to tackle and resolve performance bottlenecks with confidence From continuous monitoring techniques to strategic benchmarking Mastering JVM Performance Tuning and Optimization arms you with the tools required for ongoing improvements Embark on a journey towards mastering the JVM s capabilities creating high performance applications that stand out in today s competitive technological landscape Reliable Software Technology – Ada-Europe 2005 Tullio Vardanega,Andrew J. Wellings,2005-06-08 This book constitutes the refereed proceedings of the 10th International Conference on Reliable Software Technologies Ada Europe 2005 held in York UK in June 2005 The 21 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on applications design and scheduling formal methods Ada and education certification and verification distributed systems language aspects and Ravenscar technology Proceedings of the Third ACM SIGPLAN International Conference on Functional Programming (ICFP '98) ,1998 **Advances and Applications of Cost-Effective, High-Throughput Genotyping Technologies for Sustainable Agriculture** Nisha Singh,Sapna Langyan,Vandna Rai,2023-12-28 Recent advances in next generation sequencing driven mass production of genomic data and various other integrated techniques have considerably broadened and deepened our understanding of living organisms molecular systems Because complex quantitative traits are difficult to select due to low heritability conventional plant breeding relies on phenotypic selection and breeder experience it takes longer to develop a new improved variety For association studies to identify DNA markers linked to these complex traits genotyping chip arrays allow genotyping of thousands of markers in a

short amount of time Plant breeding consistency and predictability have improved thanks to advances in genomics NGS technologies bring new tools and concepts that can enhance the precision and efficiency of plant breeding such as cost effective high throughput genotyping technologies for sustainable agriculture These genotyping technologies will be lowering the time and cost of developing high quality food crops that are stress resistant while still having a high nutritional value This Research Topic focuses on recent advancements in NGS related technologies mainly the development of cost effective high throughput genotyping platforms with a wide range of bioinformatics tools and possible translational multi omics applications in crop breeding programs for sustainable agriculture   *Modern Compiler Implementation in C* Andrew W. Appel,2004-07-08 This new expanded textbook describes all phases of a modern compiler lexical analysis parsing abstract syntax semantic actions intermediate representations instruction selection via tree matching dataflow analysis graph coloring register allocation and runtime systems It includes good coverage of current techniques in code generation and register allocation as well as functional and object oriented languages that are missing from most books In addition more advanced chapters are now included so that it can be used as the basis for a two semester or graduate course The most accepted and successful techniques are described in a concise way rather than as an exhaustive catalog of every possible variant Detailed descriptions of the interfaces between modules of a compiler are illustrated with actual C header files The first part of the book Fundamentals of Compilation is suitable for a one semester first course in compiler design The second part Advanced Topics which includes the advanced chapters covers the compilation of object oriented and functional languages garbage collection loop optimizations SSA form loop scheduling and optimization for cache memory hierarchies   **Effective C# (Covers C# 4.0)** Bill Wagner,2010-03-05 C has matured over the past decade It s now a rich language with generics functional programming concepts and support for both static and dynamic typing This palette of techniques provides great tools for many different idioms but there are also many ways to make mistakes In Effective C Second Edition respected NET expert Bill Wagner identifies fifty ways you can leverage the full power of the C 4 0 language to express your designs concisely and clearly Effective C Second Edition follows a clear format that makes it indispensable to hundreds of thousands of developers clear practical explanations expert tips and plenty of realistic code examples Drawing on his unsurpassed C experience Wagner addresses everything from types to resource management to dynamic typing to multicore support in the C language and the NET framework Along the way he shows how to avoid common pitfalls in the C language and the NET environment You ll learn how to Use both types of C constants for efficiency and maintainability see Item 2 Employ immutable data types to promote multicore processing see Item 20 Minimize garbage collection boxing and unboxing see Items 16 and 45 Take full advantage of interfaces and delegates see Items 22 though 25 Make the most of the parallel framework see Items 35 through 37 Use duck typing in C see Item 38 Spot the advantages of the dynamic and Expression types over reflection see Items 42 and 43 Assess why query expressions are better than loops see Item 8 Understand how

generic covariance and contravariance affect your designs see Item 29 See how optional parameters can minimize the number of method overloads see Item 10 You re already a successful C programmer this book will help you become an outstanding one **Dissertation Abstracts International** ,2008 Efficient Java-Centric Grid Computing Robert Vincent van Nieuwpoort,2003 **Efficient Java-Centric Grid Computing** , Persistent Object Systems Malcolm Atkinson,David Maier,Veronique Benzaken,2012-12-06 The Sixth International Workshop on Persistent Object Systems was held at Les Mazets des Roches near Tarascon Provence in southern France from the fifth to the ninth of September 1994 The attractive context and autumn warmth greeted the 53 participants from 12 countries spread over five continents Persistent object systems continue to grow in importance Almost all significant uses of computers to support human endeavours depend on long lived and large scale systems As expectations and ambitions rise so the sophistication of the systems we attempt to build also rises The quality and integrity of the systems and their feasibility for supporting large groups of co operating people depends on their technical founda tion Persistent object systems are being developed which provide a more robust and yet simpler foundation for these persistent applications The workshop followed the tradition of the previous workshops in the series focusing on the design implementation and use of persistent object systems in particular and persistent systems in general There were clear signs that this line of research is maturing as engineering issues were discussed with the aid of evidence from operational systems The work presented covered the complete range of database facilities transactions concurrency distribution integrity and schema modifica tion There were examples of very large scale use one involving tens of terabytes of data Language issues particularly the provision of reflection continued to be important **Design and Implementation of Symbolic Computation Systems** Alfonso Miola,1990-03-26 The growing importance of the systems for symbolic computation has greatly influenced the decision of organizing DISCO 90 which is short for International Symposium on Design and Implementation of Symbolic Computation Systems DISCO 90 focuses mainly on the most innovative methodological and technological aspects of hardware and software system design and implementation for Symbolic and Algebraic Computation Automated Reasoning Software Environments Languages and User Interfaces and Automatic Programming In particular it includes papers on the design and the development of significant running systems The general objective of DISCO 90 is to present an up to date view of the field while encouraging the scientific exchange among academic industrial and user communities of the development of systems for symbolic computation Generic Programming Jeremy Gibbons,Johan Jeuring,2013-04-17 Generic programming is about making programs more adaptable by making them more general Generic programs often embody non traditional kinds of polymorphism ordinary programs are obtained from them by suitably instantiating their parameters In contrast with normal programs the parameters of a generic program are often quite rich in structure for example they may be other programs types or type constructors class hierarchies or even programming paradigms Generic programming techniques have always been of interest both to practitioners and to

theoreticians but only recently have generic programming techniques become a specific focus of research in the functional and object oriented programming language communities Generic Programming comprises the edited proceedings of the Working Conference on Generic Programming which was sponsored by the International Federation for Information Processing IFIP and held in Dagstuhl Germany in July 2002 With contributions from leading researchers around the world this volume captures the state of the art in this important emerging area

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