



MICHAEL WOLFE

# **Optimizing Supercompilers for Supercomputers**

The MIT Press

# Optimizing Supercompilers For Supercomputers Research Monographs In Parallel And Distributed Computing

**Michael Brown**



## **Optimizing Supercompilers For Supercomputers Research Monographs In Parallel And Distributed Computing:**

**Optimizing Supercompilers for Supercomputers** Michael Joseph Wolfe, 1989      **Languages and Compilers for Parallel Computing** Utpal Banerjee, 1993-12-08 The articles in this volume are revised versions of the best papers presented at the Fifth Workshop on Languages and Compilers for Parallel Computing held at Yale University August 1992. The previous workshops in this series were held in Santa Clara 1991, Irvine 1990, Urbana 1989, and Ithaca 1988. As in previous years, a reasonable cross section of some of the best work in the field is presented. The volume contains 35 papers, mostly by authors working in the U.S. or Canada, but also by authors from Austria, Denmark, Israel, Italy, Japan, and the U.K.

Architecture-Independent Loop Parallelisation Radu C. Calinescu, 2012-12-06 Architecture-independent programming and automatic parallelisation have long been regarded as two different means of alleviating the prohibitive costs of parallel software development. Building on recent advances in both areas, Architecture-Independent Loop Parallelisation proposes a unified approach to the parallelisation of scientific computing code. This novel approach is based on the bulk synchronous parallel model of computation and succeeds in automatically generating parallel code that is architecture-independent, scalable, and of analytically predictable performance.

**Languages and Compilers for Parallel Computing** Siddhartha Chatterjee, Jan F. Prins, Larry Carter, Jeanne Ferrante, Zhiyuan L. Li, David Sehr, Pen-Chung Yew, 2003-06-26 LCPC 98 Steering and Program Committees for their time and energy in viewing the submitted papers. Finally and most importantly, we thank all the authors and participants of the workshop. It is their significant research work and their enthusiastic discussions throughout the workshop that made LCPC 98 a success.

May 1999 Siddhartha Chatterjee Program Chair Preface The year 1998 marked the eleventh anniversary of the annual Workshop on Languages and Compilers for Parallel Computing (LCPC), an international forum for leading research groups to present their current research activities and latest results. The LCPC community is interested in a broad range of technologies with a common goal of developing software systems that enable real applications. Among the topics of interest to the workshop are language features, communication, code generation and optimization, communication libraries, distributed shared memory, libraries, distributed object systems, resource management systems, integration of compiler and runtime systems, irregular and dynamic applications, performance evaluation, and debuggers.

LCPC 98 was hosted by the University of North Carolina at Chapel Hill (UNC-CH) on 7-9 August 1998 at the William and Ida Friday Center on the UNC-CH campus. Fifty people from the United States, Europe, and Asia attended the workshop. The program committee of LCPC 98, with the help of external reviewers, evaluated the submitted papers. Twenty-four papers were selected for formal presentation at the workshop. Each session was followed by an open panel discussion centered on the main topic of the particular session.

*Software and Compilers for Embedded Systems* Andreas Krall, 2003-09-16 This book constitutes the refereed proceedings of the 7th International Workshop on Software and Compilers for Embedded Systems (SCOPES 2003) held in Vienna, Austria, in September 2003. The 26 revised full papers presented were carefully reviewed and

selected from 43 submissions The papers are organized in topical sections on code size reduction code selection loop optimizations automatic retargeting system design register allocation offset assignment analysis and profiling and memory and cache optimizations     Optimizing Parallel Applications William Shih-hao Hung,1998     **LCPC'97** David Sehr,1997-06-11 This book presents the thoroughly refereed post workshop proceedings of the 9th International Workshop on Languages and Compilers for Parallel Computing LCPC 96 held in San Jose California in August 1996 The book contains 35 carefully revised full papers together with nine poster presentations The papers are organized in topical sections on automatic data distribution and locality enhancement program analysis compiler algorithms for fine grain parallelism instruction scheduling and register allocation parallelizing compilers communication optimization compiling HPF and run time control of parallelism     Euro-Par'96 - Parallel Processing Luc Bougé,1996 This two volume set presents the proceedings of the Second International European Conference on Parallel Processing EuroPar 96 held in Lyon France in August 1996 EuroPar 96 was organized in 14 workshops covering the whole spectrum of parallel processing The comprehensive proceedings constitute a unique record of the state of the art in parallel processing research and development the 224 papers included together with four invited papers were selected from a total of 383 submissions by authors from 40 countries 554 referees were involved in the selection process and the index lists 521 contributing authors PUBLISHER S WEBSITE     **Languages and Compilers for Parallel Computing** Zhiyuan Li,1998-04-29 This book constitutes the refereed proceedings of the 12th Biennial Conference of the Canadian Society for Computational Studies of Intelligence AI 98 held in Vancouver BC Canada in June 1998 The 28 revised full papers presented together with 10 extended abstracts were carefully reviewed and selected from a total of more than twice as many submissions The book is divided in topical sections on planning constraints search and databases applications genetic algorithms learning and natural language reasoning uncertainty and learning     **Conference Proceedings** ,2000     Languages and Compilers for Parallel Computing ,1998     Parallelizing Compilers Karen L. Pieper,Stanford University. Computer Science Department,1993 Abstract Effective automatic parallelization of programs requires solving two problems First a compiler must discover what parallelism is available in the program and second it must compile the available parallelism to execute efficiently on a multiprocessor This thesis examines the first problem for scientific and engineering applications written in FORTRAN Since most of the parallelism in such programs occurs within loops the techniques studied are aimed at exposing loop level parallelism The roles of specific optimizations and analyses for exposing parallelism are examined in the absence of machine constraints     **Annual ACM Symposium on Parallel Algorithms and Architectures** ,1997     **Goal-directed Performance Tuning for Scientific Applications** Tien-Pao Shih,1996 Abstract Performance tuning as carried out by compiler designers and application programmers to close the performance gap between the achievable peak and delivered performance becomes increasingly important and challenging as the microprocessor speeds and system sizes increase

However although performance tuning on scientific codes usually deals with relatively small program regions it is not generally known how to establish a reasonable performance objective and how to efficiently achieve this objective We suggest a goal directed approach and develop such an approach for each of three major system performance components central processor unit CPU computation memory accessing and communication For the CPU we suggest using a machine application performance model that characterizes workloads on four key function units memory floating point issue and a virtual dependence unit to produce an upper bound performance objective and derive a mechanism to approach this objective A case study shows an average 1 79x speedup achieved by using this approach for the Livermore Fortran Kernels 1 12 running on the IBM RS 6000 For memory as compulsory and capacity misses are relatively easy to characterize we derive a method for building application specific cache behavior models that report the number of misses for all three types of conflict misses self cross and ping pong The method uses averaging concepts to determine the expected number of cache misses instead of attempting to count them exactly in each instance which provides a more rapid yet realistic assessment of expected cache behavior For each type of conflict miss we propose a reduction method that uses one or a combination of three techniques based on modifying or exploiting data layout array padding initial address adjustment and access resequencing A case study using a blocked matrix multiply program as an example shows that the model is within 11% of the simulation results and that each type of conflict miss can be effectively reduced or completely eliminated For communication in shared memory parallel systems we derive an array grouping mechanism and related loop transformations to reduce communication caused by the problematic case of nonconsecutive references to shared arrays and prove several theorems that determine when and where to apply this technique The experimental results show a 15% reduction in communication a 40% reduction in data subcache misses and an 18% reduction in maximum user time for a finite element application on a 56 processor KSR1 parallel computer

**Languages, Compilers, and Run-Time Systems for Scalable Computers** David O'Hallaron,1998-10-07 This book constitutes the strictly refereed post workshop proceedings of the 4th International Workshop on Languages Compilers and Run Time Systems for Scalable Computing LCR 98 held in Pittsburgh PA USA in May 1998 The 23 revised full papers presented were carefully selected from a total of 47 submissions also included are nine refereed short papers All current issues of developing software systems for parallel and distributed computers are covered in particular irregular applications automatic parallelization run time parallelization load balancing message passing systems parallelizing compilers shared memory systems client server applications etc

**Proceedings of the 1994 International Conference on Parallel Processing, August 15-19, 1994: Algorithms & applications** Jagdish Chandra,1994

**Distributed Memory Computing** Arndt Bode,1991 This volume presents the proceedings of a conference covering European activities in the field of distributed memory computing architectures programming tools operating systems programming languages and applications New architectures discussed within the framework of several ESPRIT projects are

covered as well as the application of a number of European and non European commercial multiprocessor systems Research on different interconnection topologies including mesh and hypercubes and on virtual shared memory systems is presented One of the main topics of the book is tools for programming such architectures debuggers performance analysers visualizers load balancers mappers with the goal of enhancing the productivity of the programmer Alternative execution models such as systolic arrays and dataflow processors are also addressed PUBLISHER S WEBSITE **IBM Journal of Research and Development** ,1997 **Software for Parallel Computers** Ronald H. Perrott,1992 Mathematics of Computing Parallelism **Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing** ,1990

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