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Supercompilers for Parallel and Vector Computers

Hans Zima with Barbara Chapman

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Supercompilers For Parallel And Vector Computers

Ian Pickup



Supercompilers For Parallel And Vector Computers:

Supercompilers for Parallel and Vector Computers Hans Zima, 1990 *Optimizing Supercompilers for Supercomputers* Michael Joseph Wolfe, 1989 Effective use of a supercomputer requires users to have a good algorithm and to express this algorithm in an appropriate language and requires compilers to generate efficient code This book investigates several problems facing compiler design for supercomputers including building efficient and comprehensive data dependence graphs recurrence relations the management of compiler temporary variables and WHILE loops The book first proposes an efficient means of representing the flow of data in a program by labeling the arcs in a data dependence graph with direction vectors to show how the flow of data corresponds to the loop structure of the program These data dependence direction vectors are then used in several high level compiler loop optimizations loop vectorization loop concurrentization loop fusion and loop interchanging The book shows how to perform these transformations and how to use them to optimize programs for a wide range of supercomputers The problems of recurrence relations studied include arithmetic recurrences with IF statements and recurrences involving both data and control dependence relations in a cycle The wavefront method of solving recurrences is also treated The book discusses ways to make the problem of managing temporary arrays more tractable It concludes by offering several methods for executing WHILE loops and describes a general structure of an optimizing compiler for supercomputers developed from the author's experience with a test bed compiler Michael Wolfe is Associate Professor in the Computer Science and Engineering Department at the Oregon Graduate Center *Optimizing Supercompilers for Supercomputers* is included in the series Research Monographs in Parallel Computing Copublished with Pitman Publishing **Languages and Compilers for Parallel Computing**, 1996 **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 *Languages and Compilers for Parallel Computing* Utpal Banerjee, 1994 This book contains papers selected for presentation at the Sixth Annual Workshop on Languages and Compilers for Parallel Computing The workshop was hosted by the Oregon Graduate Institute of Science and Technology All the major research efforts in parallel languages and compilers are represented in this workshop series The 36 papers in the volume are grouped under nine headings dynamic data structures parallel languages High Performance Fortran loop transformation logic and dataflow language implementations fine grain parallelism scalar analysis parallelizing compilers and analysis of parallel programs The book represents a valuable snapshot of the state of research in the field in 1993 Software Engineering for Parallel and Distributed Systems Innes Jelly, Ian Gorton, Peter Croll, 1996-03-31 A wide

range of modern computer applications require the performance and flexibility of parallel and distributed systems Better software support is required if the technical advances in these systems are to be fully exploited by commerce and industry This involves the provision of specialised techniques and tools as well as the integration of standard software engineering methods This book will reflect current advances in this area and will address issues of theory and practice with contributions from academia and industry It is the aim of the book to provide a focus for information on this developing which will be of use to both researchers and practitioners

Highly Parallel Computations M. P. Bekakos, 2001 This work provides a state of the art survey of the applications of processor network architectures and of various highly parallel computational methods Because of the increasing interdependence of the research activities in these major areas of highly parallel computations it seemed appropriate to produce this reference and study text The editor believes that the contributions in this work provide a valuable pointer to the research issues in this area

Parallel Computing Technologies, 1997 ACM Transactions on Modeling and Computer Simulation, 1991 *ACM Transactions on Computer Systems*, 1993 *Languages, Compilers and Run-Time Systems for Scalable Computers* Boleslaw K. Szymanski, Balaram Sinharoy, 1995-10-31 Language Compilers and Run time Systems for Scalable Computers contains 20 articles based on presentations given at the third workshop of the same title and 13 extended abstracts from the poster session Starting with new developments in classical problems of parallel compiler design such as dependence analysis and an exploration of loop parallelism the book goes on to address the issues of compiler strategy for specific architectures and programming environments Several chapters investigate support for multi threading object orientation irregular computation locality enhancement and communication optimization Issues of the interface between language and operating system support are also discussed Finally the load balance issues are discussed in different contexts including sparse matrix computation and iteratively balanced adaptive solvers for partial differential equations Some additional topics are also discussed in the extended abstracts Each chapter provides a bibliography of relevant papers and the book can thus be used as a reference to the most up to date research in parallel software engineering

Parallel Computing Jonathan P. Gray, Fazel Naghdy, 1995 The broadening of interest in parallel computing and transputers is reflected in this book Topics discussed include concurrent programming graphics and image processing parallel applications robotics and control and software tools The book also features a collection of abstracts of poster presentations

Compiling for NUMA Parallel Machines Wei Li, 1993 ACM Transactions on Programming Languages and Systems Association for Computing Machinery, 2001

High-performance Computing and Networking Heather Mary Liddell, 1996 This comprehensive volume presents the refereed proceedings of the International Conference and Exhibition on High Performance Computing and Networking HPCN Europe 1996 held in Brussels Belgium in April 1996 under the sponsorship of the CEC The 175 papers and posters included address all relevant theoretical aspects of HPCN and computational sciences as well as a variety of applicational aspects in numerous fields The volume is organized in four tracks

industrial applications general applications computational science and computer science aspects of HPCN **The Fourth International Conference/Exhibition on High-Performance Computing in the Asia-Pacific Region, Beijing, China, May 14-17, 2000** ,2000 **Access Normalization** Wei Li,Keshav Pingali,1992 A common feature of many scalable parallel machines is non uniform memory access a processor can access data in its local memory ten to a thousand times faster than it can access non local data In addition when a number of remote accesses must be made it is usually more efficient to use block transfers of data rather than to use many small messages To run well on such machines software must exploit these features We believe it is too onerous for a programmer to do this by hand so we have been exploring the use of restructuring compiler technology for this purpose In this paper we start with a language like FORTRAN D with user specified data distributions and develop a systematic loop transformation strategy called access normalization that restructures loop nests to exploit both locality and block transfers wherever possible We demonstrate the power of our techniques using routines from the BLAS Basic Linear Algebra Subprograms library Our loop transformation strategy is expressed in the framework of invertible matrices and integer lattice theory and it is an important generalization of Banerjee s framework of unimodular matrices Advances in Parallel and Distributed Computing IEEE Computer Society,1997 Annotation Papers from the March 1997 conference address topics related to the field such as architectural aspects of parallel computer hardware and basic software new algorithms and performance issues focusing on parallel distributed programming paradigms and novel applications for parallel and distributed computing Contains sections on parallel applications simulation performance programming models parallel algorithms operating systems parallel architectures distributed computing and parallel compilers Annotation copyrighted by Book News Inc Portland OR EURO-PAR '... ,1999 Вычислительные Машины И Искусственный Интеллект ,1993

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