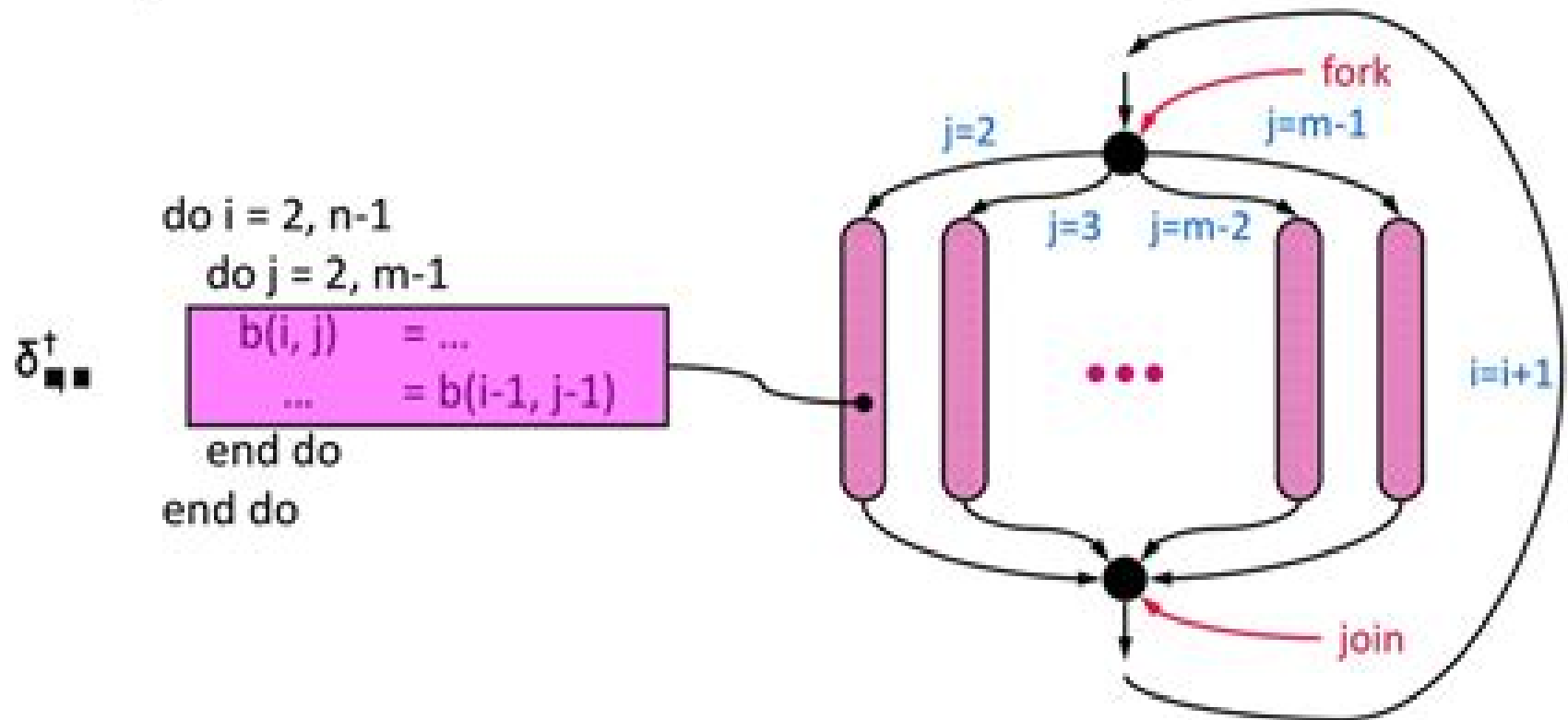


Loop Parallelization - Example



- Iterations of loop i must be executed sequentially, but the iterations of loop j may be executed in parallel.

Why?

- Inner loop parallelism.

Loop Parallelization

**Samuel P. Midkiff, Jose E.
Moreira, Manish Gupta, Siddhartha
Chatterjee, Jeanne Ferrante, Jan
Prins, William Pugh, Chau-Wen Tseng**

Loop Parallelization:

Loop Parallelization Utpal Banerjee, 2013-06-29 Automatic transformation of a sequential program into a parallel form is a subject that presents a great intellectual challenge and promises a great practical award. There is a tremendous investment in existing sequential programs and scientists and engineers continue to write their application programs in sequential languages primarily in Fortran. The demand for higher speedups increases. The job of a restructuring compiler is to discover the dependence structure and the characteristics of the given machine. Much attention has been focused on the Fortran do loop. This is where one expects to find major chunks of computation that need to be performed repeatedly for different values of the index variable. Many loop transformations have been designed over the years and several of them can be found in any parallelizing compiler currently in use in industry or at a university research facility. The book series on KappaLoop Transformations for Restructuring Compilers provides a rigorous theory of loop transformations and dependence analysis. We want to develop the transformations in a consistent mathematical framework using objects like directed graphs, matrices, and linear equations. Then the algorithms that implement the transformations can be precisely described in terms of certain abstract mathematical algorithms. The first volume, *Loop Transformations for Restructuring Compilers: The Foundations*, provided the general mathematical background needed for loop transformations, including those basic mathematical algorithms discussed, data dependence, and introduced the major transformations. The current volume, *Loop Parallelization*, builds a detailed theory of iteration level loop transformations based on the material developed in the previous book.

Automatic Parallelization Samuel Midkiff, 2022-06-01 Compiling for parallelism is a longstanding topic of compiler research. This book describes the fundamental principles of compiling regular numerical programs for parallelism. We begin with an explanation of analyses that allow a compiler to understand the interaction of data reads and writes in different statements and loop iterations during program execution. These analyses include dependence analysis, use-def analysis, and pointer analysis. Next, we describe how the results of these analyses are used to enable transformations that make loops more amenable to parallelization and discuss transformations that expose parallelism to target shared memory, multicore, and vector processors. We then discuss some problems that arise when parallelizing programs for execution on distributed memory machines. Finally, we conclude with an overview of solving Diophantine equations and suggestions for further readings in the topics of this book to enable the interested reader to delve deeper into the field.

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Dependence analysis: dependence graphs and alias analysis
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Symbolic Parallelization of Nested Loop Programs Alexandru-Petru Tanase, Frank Hannig, Jürgen Teich, 2018-02-22 This book introduces new compilation techniques using the polyhedron model for the resource adaptive parallel execution of loop programs on massively parallel

processor arrays The authors show how to compute optimal symbolic assignments and parallel schedules of loop iterations at compile time for cases where the number of available cores becomes known only at runtime The compile runtime symbolic parallelization approach the authors describe reduces significantly the runtime overhead compared to dynamic or just in time compilation The new on demand fault tolerant loop processing approach described in this book protects loop nests for parallel execution against soft errors Parallel Processing and Applied Mathematics Roman Wyrzykowski,Jack

Dongarra,Ewa Deelman,Konrad Karczewski,2018-03-22 The two volume set LNCS 10777 and 10778 constitutes revised selected papers from the 12th International Conference on Parallel Processing and Applied Mathematics PPAM 2017 held in Lublin Poland in September 2017 The 49 regular papers presented in this volume were selected from 98 submissions For the workshops and special sessions that were held as integral parts of the PPAM 2017 conference a total of 51 papers was accepted from 75 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing particle methods in simulations task based paradigm of parallel computing GPU computing parallel non numerical algorithms performance evaluation of parallel algorithms and applications environments and frameworks for parallel distributed cloud computing applications of parallel computing soft computing with applications and special session on parallel matrix factorizations Part II workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop power and energy aspects of computations PEAC 2017 workshop on scheduling for parallel computing SPC 2017 workshop on language based parallel programming models WLPP 2017 workshop on PGAS programming minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems *Introduction to Parallel Computing* Wesley Petersen,Peter

Arbenz,2004-01-08 In the last few years courses on parallel computation have been developed and offered in many institutions in the UK Europe and US as a recognition of the growing significance of this topic in mathematics and computer science There is a clear need for texts that meet the needs of students and lecturers and this book based on the author s lecture at ETH Zurich is an ideal practical student guide to scientific computing on parallel computers working up from a hardware instruction level to shared memory machines and finally to distributed memory machines Aimed at advanced undergraduate and graduate students in applied mathematics computer science and engineering subjects covered include linear algebra fast Fourier transform and Monte Carlo simulations including examples in C and in some cases Fortran This book is also ideal for practitioners and programmers **Languages and Compilers for Parallel Computing** Samuel P.

Midkiff,Jose E. Moreira,Manish Gupta,Siddhartha Chatterjee,Jeanne Ferrante,Jan Prins,William Pugh,Chau-Wen Tseng,2003-06-29 This volume contains the papers presented at the 13th International Workshop on Languages and Compilers for Parallel Computing It also contains extended abstracts of submissions that were accepted as posters The workshop was held at the IBM T J Watson Research Center in Yorktown Heights New York As in previous years the workshop

focused on issues in optimizing compilers languages and software environments for high performance computing This continues a trend in which languages compilers and software environments for high performance computing and not strictly parallel computing has been the organizing topic As in past years participants came from Asia North America and Europe This workshop reflected the work of many people In particular the members of the steering committee David Padua Alex Nicolau Utpal Banerjee and David Gelernter have been instrumental in maintaining the focus and quality of the workshop since it was first held in 1988 in Urbana Champaign The assistance of the other members of the program committee Larry Carter Sid Chatterjee Jeanne Ferrante Jans Prins Bill Pugh and Chau wen Tseng was crucial The infrastructure at the IBM T J Watson Research Center provided trouble free logistical support The IBM T J Watson Research Center also provided financial support by underwriting much of the expense of the workshop Appreciation must also be extended to Marc Snir and Pratap Pattnaik of the IBM T J Watson Research Center for their support

Algorithms and Architectures for Parallel Processing Sang-Soo Yeo, Jong Hyuk Park, Ching-Hsien Hsu, Laurence Tianruo Yang, 2010-05-07 This book constitutes the proceedings of the 10th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP The 47 papers were carefully selected from 157 submissions and focus on topics for researchers and industry practitioners to exchange information regarding advancements in the state of art and practice of IT driven services and applications as well as to identify emerging research topics and define the future directions of parallel processing

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

Languages and Compilers for Parallel Computing James Brodman, Peng Tu, 2015-04-30 This book constitutes the thoroughly refereed post conference proceedings of the 27th International Workshop on Languages and Compilers for Parallel Computing LCPC 2014 held in Hillsboro OR USA in September 2014 The 25 revised full papers were carefully reviewed and selected from 39 submissions The papers are organized in topical sections on accelerator programming algorithms for parallelism compilers debugging vectorization

Software Engineering for Parallel and Distributed Systems Innes Jelly, Ian Gorton, Peter Croll, 2016-01-09 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

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