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An Introduction to Parallel Programming Solutions, Chapter 1

Jinyoung Choi and Peter Pacheco

February 1, 2011

- 2. We are assigning blocks of elements to cores in order (the first n/p elements to core 0, the next n/p elements to core 1, so on). So, for example, if n = 12 and p = 4, core 0 spends 12 milliseconds in the call to Compute_next_value (i = 0, 1, 2), core 1 spends 30 milliseconds (i = 3, 4, 5), core 2 spends 48 milliseconds (i = 6, 7, 8), and core 3 spends 66 milliseconds (i = 9, 10, 11). So clearly this assignment will do a very poor job of load balancing.

A better approach uses a cyclic assignment of the work to the cores:

/* assign[c][j] is the jth value of i assigned to core c */
/* work[c] is the total amount of work assigned to core c */
c = j = 0;
for (i = 0; i < n; i++) {
 work[c] += 2*(i+1);
 assign[c][j] = i;
 c = (c * 1) % p;
 if (c == 0) j++;
}</pre>

<u>Introduction To Parallel Programming Peter Pacheco</u> <u>Solutions</u>

Kyoji Sassa,Kazuo Konagai,Binod Tiwari,Željko Arbanas,Shinji Sassa

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An Introduction to Parallel Programming Peter Pacheco, Matthew Malensek, 2021-08-27 An Introduction to Parallel Programming Second Edition presents a tried and true tutorial approach that shows students how to develop effective parallel programs with MPI Pthreads and OpenMP As the first undergraduate text to directly address compiling and running parallel programs on multi core and cluster architecture this second edition carries forward its clear explanations for designing debugging and evaluating the performance of distributed and shared memory programs while adding coverage of accelerators via new content on GPU programming and heterogeneous programming New and improved user friendly exercises teach students how to compile run and modify example programs Takes a tutorial approach starting with small programming examples and building progressively to more challenging examples Explains how to develop parallel programs using MPI Pthreads and OpenMP programming models A robust package of online ancillaries for instructors and students includes lecture slides solutions manual downloadable source code and an image bank New to this edition New chapters on GPU programming and heterogeneous programming New examples and exercises related to parallel algorithms

Introduction to Parallel Programming Subodh Kumar, 2023-01-05 In modern computer science there exists no truly sequential computing system and most advanced programming is parallel programming. This is particularly evident in modern application domains like scientific computation data science machine intelligence etc. This lucid introductory textbook will be invaluable to students of computer science and technology acting as a self-contained primer to parallel programming. It takes the reader from introduction to expertise addressing a broad gamut of issues. It covers different parallel programming styles describes parallel architecture includes parallel programming frameworks and techniques presents algorithmic and analysis techniques and discusses parallel design and performance issues. With its broad coverage the book can be useful in a wide range of courses and can also prove useful as a ready reckoner for professionals in the field

An Introduction to Parallel Programming Scott L. Hamilton,2013-12-31 An introduction to parallel programming with openmpi using C It is written so that someone with even a basic understanding of programming can begin to write mpi based parallel programs

Parallel Programming with MPI Peter Pacheco,1997 Mathematics of Computing Parallelism

Introduction to Parallel Computing Wesley P. Petersen, Peter Arbenz, 2004 This is a 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 Progress in Landslide Research and Technology, Volume 1 Issue 1, 2022 Kyoji Sassa, Kazuo Konagai, Binod Tiwari, Željko Arbanas, Shinji Sassa, 2023-01-10 This open access book provides an overview of the progress in landslide research and technology and is part of a book series of the International Consortium on Landslides ICL The book provides a common platform for the publication of recent progress in landslide research and technology for practical applications and the benefit for the society contributing to the Kyoto Landslide Commitment 2020

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Järvinen, Mikko Lyly, Peter Raback, Ville Savolainen, 2003-08-03 This book constitutes the refereed proceedings of the 6th International Conference on Applied Parallel Computing PARA 2002 held in Espoo Finland in June 2002 The 50 revised full papers presented together with nine keynote lectures were carefully reviewed and selected for inclusion in the proceedings The papers are organized in topical sections on data mining and knowledge discovery parallel program development practical experience in parallel computing computer science numerical algorithms with hierarchical memory optimization numerical methods and algorithms cluster computing grid and network technologies and physics and applications Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 Books in Print Supplement, 2002 Mathematical Reviews, 2005

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OpenMP the standard application programming interface for shared memory parallel computing a reference for students and professionals I hope that readers will learn to use the full expressibility and power of OpenMP This book should provide an excellent introduction to beginners and the performance section should help those with some experience who want to push OpenMP to its limits from the foreword by David J Kuck Intel Fellow Software and Solutions Group and Director Parallel and Distributed Solutions Intel Corporation OpenMP a portable programming interface for shared memory parallel computers was adopted as an informal standard in 1997 by computer scientists who wanted a unified model on which to base programs for shared memory systems OpenMP is now used by many software developers it offers significant advantages over both hand threading and MPI Using OpenMP offers a comprehensive introduction to parallel programming concepts and a detailed overview of OpenMP Using OpenMP discusses hardware developments describes where OpenMP is applicable and compares OpenMP to other programming interfaces for shared and distributed memory parallel architectures It introduces the individual features of OpenMP provides many source code examples that demonstrate the use and functionality of the language constructs and offers tips on writing an efficient OpenMP program It describes how to use OpenMP in full scale applications to achieve high performance on large scale architectures discussing several case studies in detail and offers in depth troubleshooting advice It explains how OpenMP is translated into explicitly multithreaded code providing a valuable behind the scenes account of OpenMP program performance Finally Using OpenMP considers trends likely to influence OpenMP development offering a glimpse of the possibilities of a future OpenMP 3 0 from the vantage point of the current OpenMP 2 5 With multicore computer use increasing the need for a comprehensive introduction and overview of the standard interface is clear Using OpenMP provides an essential reference not only for students at both undergraduate and graduate levels but also for professionals who intend to parallelize existing codes or develop new parallel programs for Principles of Parallel Programming Yun Calvin Lin, Lawrence Snyder, 2008 With shared memory computer architectures the rise of multi core architecture parallel programming is an increasingly important topic for software engineers and computer system designers Written by well known researchers Larry Snyder and Calvin Lin this highly anticipated first edition emphasises the principles underlying parallel computation explains the various phenomena and clarifies why these phenomena represent opportunities or barriers to successful parallel programming Ideal for an advanced upper level undergraduate course Principles of Parallel Programming supplies enduring knowledge that will outlive the current hardware and software aiming to inspire future researchers to build tomorrow s solutions **Designing and Building Parallel Programs** Ian Foster, 1995-01 At last a practitioner s guide to parallel programming Students and professionals who use parallel or distributed computer systems will be able to solve real problems with Designing and Building Parallel Programs This book provides a comprehensive introduction to parallel algorithm design performance analysis and program construction It describes the tools needed to write parallel programs and provides numerous examples A unique feature is

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