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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>

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Sabine Zange

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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 which is expected to

continue up to 2030 and even beyond to globally promote the understanding and reduction of landslide disaster risk as well as to address the 2030 Agenda Sustainable Development Goals Forthcoming Books Rose Arny,1996-06 Applied Parallel Computing: Advanced Scientific Computing Juha Fagerholm, Juha Haataja, Jari 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

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