

An Introduction to Parallel Programming Solutions, Chapter 1

Jinyoung Choi and Peter Pacheco

February 1, 2011

- ```
1. quotient = n / p;
 remainder = n % p;
 if (my_rank < remainder) {
 my_n_count = quotient + 1;
 my_first_i = my_rank * my_n_count;
 } else {
 my_n_count = quotient;
 my_first_i = my_rank * my_n_count + remainder;
 }
 my_last_i = my_first_i + my_n_count;
```
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++;
}
```

# Parallel Programming Solution Manual

**Kwai Hwang,Zhiwei Xu**



## **Parallel Programming Solution Manual:**

Solutions Manual to Scientific Parallel Computing L. R. Scott, 2005-01-05      Instructor's Solutions Manual to Accompany Scaladle Parallel Computing, Technology, Architecture and Programming [by] Kai Hwang, Zhiwei Xu Kwai Hwang, Zhiwei Xu, 1998      **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      OpenMP Shared Memory Parallel Programming Rudolf Eigenmann, Michael J. Voss, 2003-05-15 This book contains the presentations given at the Workshop on OpenMP Applications and Tools WOMPAT 2001 The workshop was held on July 30 and 31 2001 at Purdue University West Lafayette Indiana USA It brought together designers users and researchers of the OpenMP application programming interface OpenMP has emerged as the standard for shared memory parallel programming For the first time it is possible to write parallel programs that are portable across the majority of shared memory parallel computers WOMPAT 2001 served as a forum for all those interested in OpenMP and allowed them to meet share ideas and experiences and discuss the latest developments of OpenMP and its applications WOMPAT 2001 was co sponsored by the OpenMP Architecture Review Board ARB It followed a series of workshops on OpenMP including WOMPAT 2000 EWOMP 2000 and WOMPEI 2000 For WOMPAT 2001 we solicited papers formally and published them in the form of this book The authors submitted extended abstracts which were reviewed by the program committee All submitted papers were accepted The authors were asked to prepare a final paper in which they addressed the reviewers comments The proceedings in the form of this book were created in time to be available at the workshop In this way we hope to have brought out a timely report of ongoing OpenMP related research and development efforts as well as ideas for future improvements      Handbook of Parallel Computing Sanguthevar Rajasekaran, John Reif, 2007-12-20 The ability of parallel computing to process large data sets and handle time consuming operations has resulted in unprecedented advances in biological and scientific computing modeling and simulations Exploring these recent developments the Handbook of Parallel Computing Models Algorithms and

Applications provides comprehensive coverage on a *Parallel Programming* Thomas Rauber, Gudula Rünger, 2023-04-04 This textbook covers the new development in processor architecture and parallel hardware It provides detailed descriptions of parallel programming techniques that are necessary for developing efficient programs for multicore processors as well as for parallel cluster systems and supercomputers The book is structured in three main parts covering all areas of parallel computing the architecture of parallel systems parallel programming models and environments and the implementation of efficient application algorithms The emphasis lies on parallel programming techniques needed for different architectures In particular this third edition includes an extended update of the chapter on computer architecture and performance analysis taking new developments such as the aspect of energy consumption into consideration The description of OpenMP has been extended and now also captures the task concept of OpenMP The chapter on message passing programming has been extended and updated to include new features of MPI such as extended reduction operations and non blocking collective communication operations The chapter on GPU programming also has been updated All other chapters also have been revised carefully The main goal of this book is to present parallel programming techniques that can be used in many situations for many application areas and to enable the reader to develop correct and efficient parallel programs Many example programs and exercises are provided to support this goal and to show how the techniques can be applied to further applications The book can be used as a textbook for students as well as a reference book for professionals The material of the book has been used for courses in parallel programming at different universities for many years

**Parallel Computing Technologies** Victor Malyshkin, 2023-08-14 This book constitutes the refereed proceedings of the 17th International Conference on Parallel Computing Technologies PaCT 2023 held in Astana Kazakhstan during August 21 25 2023 The 15 full papers included in this book were carefully reviewed and selected from 23 submissions They were organized in topical sections as follows automatic programming and program tuning frameworks and services algorithms and distributed systems management

*Introduction to Parallel Computing* Vipin Kumar, 2001-07-01 [Languages and Compilers for Parallel Computing](#) Xipeng Shen, Frank Mueller, James Tuck, 2016-02-19 This book constitutes the thoroughly refereed post conference proceedings of the 28th International Workshop on Languages and Compilers for Parallel Computing LCPC 2015 held in Raleigh NC USA in September 2015 The 19 revised full papers were carefully reviewed and selected from 44 submissions The papers are organized in topical sections on programming models optimizing framework parallelizing compiler communication and locality parallel applications and data structures and correctness and reliability

**High-Level Parallel Programming Models and Supportive Environments** Frank Mueller, 2003-05-15 On the 23rd of April 2001 the 6th Workshop on High Level Parallel Programming Models and Supportive Environments LCTES 98 was held in San Francisco HIPShas been held over the past six years in conjunction with IPDPS the International Parallel and Distributed Processing Symposium The HIPSworkshop focuses on high level programming of networks of workstations computing clusters and of

massively parallel machines Its goal is to bring together researchers working in the areas of applications language design compilers system architecture and programming tools to discuss new developments in programming such systems In recent years several standards have emerged with an increasing demand of support for parallel and distributed processing On one end message passing frameworks such as PVM MPI and VIA provide support for basic communication On the other hand distributed object standards such as CORBA and DCOM provide support for handling remote objects in a client server fashion but also ensure certain guarantees for the quality of services The key issues for the success of programming parallel and distributed environments are high level programming concepts and efficiency In addition other quality categories have to be taken into account such as scalability security bandwidth guarantees and fault tolerance just to name a few Today's challenge is to provide high level programming concepts without sacrificing efficiency This is only possible by carefully designing for those concepts and by providing supportive programming environments that facilitate program development and tuning

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