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CS 240A: Applied Parallel Computing

In the simplest sense, parallel computing is the simultaneous use of multiple compute resources to solve a computational problem: A problem is broken into discrete parts that can be solved concurrently Each part is further broken down to a series of instructions Instructions from each part execute simultaneously on different processors

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Introduction to Parallel Computing  
Applied Parallel Computing Advanced  
Scientific Computing 6th International  
Conference, PARA 2002 Espoo, Finland, June

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15-18, 2002 Proceedings

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Applied Parallel Computing | SpringerLink  
Introduction The PARA workshops in the past were devoted to parallel computing methods in science and technology. There have been seven PARA meetings to date: PARA'94, PARA'95 and PARA'96 in Lyngby, Denmark, PARA'98 in Umea, Sweden, PARA 2000 in Bergen, Norway, PARA 2002 in Espoo, Finland, and PARA 2004 again in Lyngby, Denmark.

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Parallel computing can also be applied to the design of fault-tolerant computer systems, particularly via lockstep systems performing the same operation in parallel. This provides redundancy in case one component fails, and also allows automatic error detection and error correction if the results differ.

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Parallel computing - Wikipedia

Applied Parallel Computing. by Yuefan Deng.  
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In this tutorial we shall review three different and distinct approaches to parallel computing which can be used to solve problems in all manner of domains, including machine learning, natural language processing, finance, and computer vision.

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Presentation: Applied Parallel Computing with

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Python ...

Applied Parallel Computing. Large Scale Scientific and Industrial Problems by Bo Kagstroem, 9783540654148, available at Book Depository with free delivery worldwide.

This book constitutes the refereed proceedings of the 7th International Conference on Applied Parallel Computing, PARA 2004, held in June 2004. The 118 revised full papers presented together with five invited lectures and 15 contributed talks were carefully reviewed and selected for inclusion in the proceedings. The papers are organized in topical sections.

This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Applied Parallel Computing, PARA 2006. It covers partial differential equations, parallel scientific computing algorithms, linear algebra, simulation environments, algorithms and applications for blue gene/L, scientific computing tools and applications, parallel search algorithms, peer-to-peer computing, mobility and security, algorithms for single-chip multiprocessors.

The book provides a practical guide to computational scientists and engineers to help advance their research by exploiting the



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superpower of supercomputers with many processors and complex networks. This book focuses on the design and analysis of basic parallel algorithms, the key components for composing larger packages for a wide range of applications.

The two volume set LNCS 7133 and LNCS 7134 constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Applied Parallel and Scientific Computing, PARA 2010, held in Reykjavík, Iceland, in June 2010. These volumes contain three keynote lectures, 29 revised papers and 45 minisymposia presentations arranged on the following topics: cloud computing, HPC algorithms, HPC programming tools, HPC in meteorology, parallel numerical algorithms, parallel computing in physics, scientific computing tools, HPC software engineering, simulations of atomic scale systems, tools and environments for accelerator based computational biomedicine, GPU computing, high performance computing interval methods, real-time access and processing of large data sets, linear algebra algorithms and software for multicore and hybrid architectures in honor of Fred Gustavson on his 75th birthday, memory and multicore issues in scientific computing - theory and praxis, multicore algorithms and implementations for application problems, fast PDE solvers and a posteriori error estimates, and scalable

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tools for high performance computing.

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.

A clear illustration of how parallel computers can be successfully applied to large-scale scientific computations. This book demonstrates how a variety of applications in physics, biology, mathematics and other sciences were implemented on real parallel computers to produce new scientific results. It investigates issues of fine-grained parallelism relevant for future supercomputers with particular emphasis on hypercube architecture. The authors describe how they used an experimental approach to configure different massively parallel machines, design and implement basic system

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software, and develop algorithms for frequently used mathematical computations. They also devise performance models, measure the performance characteristics of several computers, and create a high-performance computing facility based exclusively on parallel computers. By addressing all issues involved in scientific problem solving, *Parallel Computing Works!* provides valuable insight into computational science for large-scale parallel architectures. For those in the sciences, the findings reveal the usefulness of an important experimental tool. Anyone in supercomputing and related computational fields will gain a new perspective on the potential contributions of parallelism. Includes over 30 full-color illustrations.

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.

This volume constitutes the refereed proceedings of the 11th International Conference on Applied Parallel and Scientific Computing, PARA 2012, held in Helsinki, Finland, in June 2012. The 35 revised full papers presented were selected from numerous submissions and are organized in five

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technical sessions covering the topics of advances in HPC applications, parallel algorithms, performance analyses and optimization, application of parallel computing in industry and engineering, and HPC interval methods. In addition, three of the topical minisymposia are described by a corresponding overview article on the minisymposia topic. In order to cover the state-of-the-art of the field, at the end of the book a set of abstracts describe some of the conference talks not elaborated into full articles.

The papers in this volume were presented at PARA 2000, the Fifth International Workshop on Applied Parallel Computing. PARA 2000 was held in Bergen, Norway, June 18-21, 2000. The workshop was organized by Parallab and the Department of Informatics at the University of Bergen. The general theme for PARA 2000 was New paradigms for HPC in industry and academia focusing on: { High-performance computing applications in academia and industry, { The use of Java in high-performance computing, { Grid and Meta computing, { Directions in high-performance computing and networking, { Education in Computational Science. The workshop included 9 invited presentations and 39 contributed presentations. The PARA 2000 meeting began with a one-day tutorial on OpenMP programming led by Timothy Mattson. This was followed by a three-day workshop. The first three PARA

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workshops were held at the Technical University of Denmark (DTU), Lyngby (1994, 1995, and 1996). Following PARA'96, an international steering committee for the PARA meetings was appointed and the committee decided that a workshop should take place every second year in one of the Nordic countries. The 1998 workshop was held at Umea University, Sweden. One important aim of these workshops is to strengthen the ties between HPC centers, academia, and industry in the Nordic countries as well as worldwide. The University of Bergen organized the 2000 workshop and the next workshop in the year 2002 will take place at the Helsinki University of Technology, Espoo, Finland.

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