

Applied Parallel Computing

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CS 240A: Applied Parallel Computing Tuesday, January 14, 2014. Assignment 1A: Describe a Parallel Application One important application of parallel computing is what is colloquially referred to as "The Big Data Problem." Computation speeds are not keeping pace with the rate at which data is growing.

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

Introduction to Parallel Computing

Applied Parallel Computing Advanced Scientific Computing 6th International Conference, PARA 2002 Espoo, Finland, June 15–18, 2002 Proceedings

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, N- way, PARA 2002 in Espoo, Finland, and PARA 2004 again in Lyngby, Denmark.

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This is an advanced interdisciplinary introduction to applied parallel computing on modern supercomputers. It has a hands-on emphasis on understanding the realities and myths of what is possible on the world's fastest machines.

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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.

Parallel computing - Wikipedia

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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.

Presentation: Applied Parallel Computing with Python ...

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