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An Introduction to Parallel Programming illustrates fundamental programming principles in the increasingly important area of shared memory programming using Pthreads and OpenMP and distributed memory programming using MPI. More importantly, it emphasizes good programming practices by indicating potential performance pitfalls.

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Description. An Introduction to Parallel Programming is the first undergraduate text to directly address compiling and running parallel programs on the new multi-core and cluster architecture. It explains how to design, debug, and evaluate the performance of distributed and shared-memory programs. The author Peter Pacheco uses a tutorial approach to show students how to develop effective parallel programs with MPI, Pthreads, and OpenMP, starting with small programming examples and building ...

An Introduction to Parallel Programming | ScienceDirect

An Introduction to Parallel Programming. An Introduction to Parallel Programming. Chapter 03 - Home. Web - This Site Monday - November 16, 2020. Chapter 01 Exercises; Chapter 02 Exercises; Chapter 03 Exercises; Chapter 04 Exercises; Chapter 05 Exercises; Chapter 06 Exercises ...

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In this article, we introduce one of the simplest approaches to parallel programming that will enable you to make use of all the processing power on your Pi. The full article can be found in The MagPi 52 and was written by James Hobro.

An introduction to parallel programming - The MagPi magazine

Description. Parallel Programming: Concepts and Practice provides an upper level introduction to parallel programming. In addition to covering general parallelism concepts, this text teaches practical programming skills for both shared memory and distributed memory architectures. The authors' open-source system for automated code evaluation provides easy access to parallel computing resources, making the book particularly suitable for classroom settings.

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