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Mastering Parallel Programming with R Master the robust features of R parallel programming to accelerate your data science computations
Simon R. Chapple Eilidh Troup
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Understand parallel programming pitfalls, such as deadlock and numerical instability, and the approaches to handle and avoid them Build a task farm master-worker, spatial grid, and hybrid parallel R programs
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Whilst I have not gone into these aspects in the book itself (since it detracts too much from the core theme of parallel programming), its certainly instructional to look through the implementation of the segue API in `awsFunctions.R` to see how the AWS API is used to enable remote creation, execution and control of AWS Elastic Map Reduce Hadoop clusters.

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The R parallel package is now part of the core distribution of R. It includes a number of different mechanisms to enable you to exploit parallelism utilizing the multiple cores in your processor (s) as well as compute the resources distributed across a network as a cluster of machines. However, as our theme in this chapter is one of simplicity, we will stick to making the most of the resources available on the machine on which you are running R.

The R parallel package - Mastering Parallel Programming with R

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Master the robust features of R parallel programming to accelerate your data science computations About This Book * Create R programs that exploit the computational capability of your cloud platforms and computers to the fullest * Become an expert in writing the most efficient and highest performance parallel algorithms in R * Get to grips with the concept of parallelism to accelerate your ...

Mastering Parallel Programming with R - Simon Chapple ...

Chapter 1. Simple Parallelism with R. In this chapter, you will start your journey toward mastery of parallelism in R by quickly learning to exploit the multicore processing capability of your own laptop and travel onward to our first look at how you can most simply exploit the vast computing capacity of the cloud.

Simple Parallelism with R - Mastering Parallel Programming

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variety of parallelization techniques, from simple use of R's built-in parallel package versions of `lapply()`, to high-level AWS cloud-based Hadoop and Apache Spark frameworks.

Mastering Parallel Programming with R eBook by Simon R ...

To parallelise computations in with R, we will distinguish between two types of parallelism: Parallel R: where the parallelism is managed with R. Discussed in Section 16.3. Parallel Extensions: where R calls specialized libraries/routines/software that manage the parallelism themselves. Discussed in Section 16.4.

Chapter 16 Parallel Computing | R (BGU course)

Mastering Parallel Programming with R : Master the robust features of R parallel programming to accelerate your data science computations. / Chapple, Simon; Forster, Thorsten; Troup, Eilidh; Sloan, Terence. UK : PACKT Publishing, 2016. 244 p. Research output: Book/Report › Book

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