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# Distributed Computing With Python

Distributed Computing with Python

Harness the power of multiple computers using Python through this fast-paced informative guide

Francesco Pierfederici

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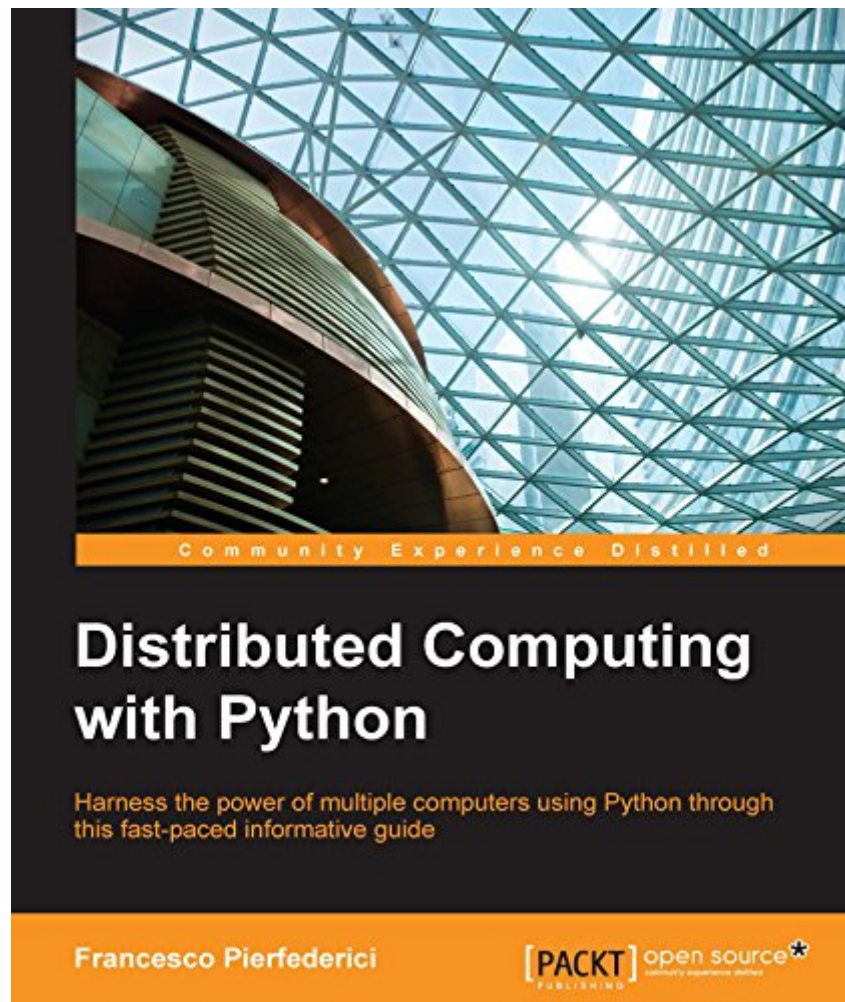
# Synopsis

Key FeaturesYou'll learn to write data processing programs in Python that are highly available, reliable, and fault tolerantMake use of  Web Services along with Python to establish a powerful remote computation systemTrain Python to handle data-intensive and resource hungry applicationsBook DescriptionCPU-intensive data processing tasks have become crucial considering the complexity of the various big data applications that are used today. Reducing the CPU utilization per process is very important to improve the overall speed of applications.This book will teach you how to perform parallel execution of computations by distributing them across multiple processors in a single machine, thus improving the overall performance of a big data processing task. We will cover synchronous and asynchronous models, shared memory and file systems, communication between various processes, synchronization, and more.What You Will LearnGet an introduction to parallel and distributed computingSee synchronous and asynchronous programmingExplore parallelism in PythonDistributed application with CeleryPython in the CloudPython on an HPC clusterTest and debug distributed applicationsAbout the AuthorFrancesco Pierfederici is a software engineer who loves Python. He has been working in the fields of astronomy, biology, and numerical weather forecasting for the last 20 years.He has built large distributed systems that make use of tens of thousands of cores at a time and run on some of the fastest supercomputers in the world. He has also written a lot of applications of dubious usefulness but that are great fun. Mostly, he just likes to build things.Table of ContentsAn Introduction to Parallel and Distributed ComputingAsynchronous ProgrammingParallelism in PythonDistributed Applications â " with CeleryPython in the CloudPython on an HPC ClusterTesting and Debugging Distributed ApplicationsThe Road Ahead

# Book Information

File Size: 9078 KB

Print Length: 172 pages

Page Numbers Source ISBN: 1785889699

Publisher: Packt Publishing; 1 edition (April 12, 2016)

Publication Date: April 12, 2016

Sold by:Â  Digital Services LLC

Language: English

ASIN: B01AXR8JAC

Text-to-Speech:  Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #542,178 Paid in Kindle Store (See Top 100 Paid in Kindle Store)   #81 inÂ Books > Computers & Technology > Programming > Parallel Programming   #243 inÂ Kindle Store > Kindle eBooks > Computers & Technology > Programming > Python   #338 inÂ Books > Computers & Technology > Computer Science > Human-Computer Interaction

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