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Parallel Programming with Python

Develop efficient parallel systems using the robust
Python environment

Jan Palach

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Fluent Python Luciano Ramalho, 2022-03-31 Don't waste time bending Python to fit patterns you've learned in other languages. Python's simplicity lets you become productive quickly, but often this means you aren't using everything the language has to offer. With the updated edition of this hands-on guide, you'll learn how to write effective modern Python 3 code by leveraging its best ideas. Discover and apply idiomatic Python 3 features beyond your past experience. Author Luciano Ramalho guides you through Python's core language features and libraries and teaches you how to make your code shorter, faster, and more readable. Complete with major updates throughout, this new edition features five parts that work as five short books within the book: Data structures (Sequences, dicts, sets, Unicode, and data classes), Functions as objects (First-class functions, related design patterns, and type hints in function declarations), Object-oriented idioms (Composition, inheritance, mixins, interfaces, operator overloading, protocols, and more), Static types (Control flow, Context managers, generators, coroutines, async/await, and thread/process pools), and Metaprogramming (Properties, attribute descriptors, class decorators, and new class metaprogramming hooks that replace or simplify metaclasses).

Python Data Analysis Ivan Idris, 2014-10-28 This book is for programmers, scientists, and engineers who have knowledge of the Python language and know the basics of data science. It is for those who wish to learn different data analysis methods using Python and its libraries. This book contains all the basic ingredients you need to become an expert data analyst.

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numerical problems get to grips with Spark and HDFS and then set up migration scripts for web mining In this book you will dive deeper into recipes on spectral analysis smoothing and bootstrapping methods Moving on you will learn to rank stocks and check market efficiency then work with metrics and clusters You will achieve parallelism to improve system performance by using multiple threads and speeding up your code By the end of the book you will be capable of handling various data analysis techniques in Python and devising solutions for problem scenarios Style and Approach The book is written in cookbook style striving for high realism in data analysis Through the recipe based format you can read each recipe separately as required and immediately apply the knowledge gained

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plethora of Python modules such as matplotlib statsmodels scikit learn and NLTK It also covers using Python with external environments such as R Fortran C C and Boost libraries Style and approach The book takes a very comprehensive approach to enhance your understanding of data analysis Sufficient real world examples and use cases are included in the book to help you grasp the concepts quickly and apply them easily in your day to day work Packed with clear easy to follow examples this book will turn you into an ace data analyst in no time

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programming with Python using the PyCUDA module along with evaluating performance limitations Style and approach A step by step guide to parallel programming using Python with recipes accompanied by one or more programming examples It is a practically oriented book and has all the necessary underlying parallel computing concepts **Parallel Programming with Python** Jan Palach, 2014-12-12 Develop efficient parallel systems using the robust Python environment Overview Demonstrates the concepts of Python parallel programming Boosts your Python computing capabilities Contains easy to understand explanations and plenty of examples In Detail Starting with the basics of parallel programming you will proceed to learn about how to build parallel algorithms and their implementation You will then gain the expertise to evaluate problem domains identify if a particular problem can be parallelized and how to use the Threading and Multiprocessor modules in Python The Python Parallel PP module which is another mechanism for parallel programming is covered in depth to help you optimize the usage of PP You will also delve into using Celery to perform distributed tasks efficiently and easily Furthermore you will learn about asynchronous I O using the asyncio module Finally by the end of this book you will acquire an in depth understanding about what the Python language has to offer in terms of built in and external modules for an effective implementation of Parallel Programming This is a definitive guide that will teach you everything you need to know to develop and maintain high performance parallel computing systems using the feature rich Python What you will learn from this book Explore techniques to parallelize problems Integrate the Parallel Python module to implement Python code Execute parallel solutions on simple problems Achieve communication between processes using Pipe and Queue Use Celery Distributed Task Queue Implement asynchronous I O using the Python asyncio module Create thread safe structures Approach A fast easy to follow and clear tutorial to help you develop Parallel computing systems using Python Along with explaining the fundamentals the book will also introduce you to slightly advanced concepts and will help you in implementing these techniques in the real world Who this book is written for If you are an experienced Python programmer and are willing to utilize the available computing resources by parallelizing applications in a simple way then this book is for you You are required to have a basic knowledge of Python development to get the most of this book [Python Parallel Programming Cookbook](#) Giancarlo Zaccone, 2019-09-06 Implement effective programming techniques in Python to build scalable software that saves time and memory Key Features Design distributed computing systems and massive computational tasks coherently Learn practical recipes with concise explanations that address development pain points encountered while coding parallel programs Understand how to host your parallelized applications on the cloud Book Description Nowadays it has become extremely important for programmers to understand the link between the software and the parallel nature of their hardware so that their programs run efficiently on computer architectures Applications based on parallel programming are fast robust and easily scalable This updated edition features cutting edge techniques for building effective concurrent applications in Python 3.7 The book introduces parallel programming architectures and covers the fundamental recipes for thread based and

process based parallelism You ll learn about mutex semaphores locks queues exploiting the threading and multiprocessing modules all of which are basic tools to build parallel applications Recipes on MPI programming will help you to synchronize processes using the fundamental message passing techniques with mpi4py Furthermore you ll get to grips with asynchronous programming and how to use the power of the GPU with PyCUDA and PyOpenCL frameworks Finally you ll explore how to design distributed computing systems with Celery and architect Python apps on the cloud using PythonAnywhere Docker and serverless applications By the end of this book you will be confident in building concurrent and high performing applications in Python What you will learn Synchronize multiple threads and processes to manage parallel tasks Use message passing techniques to establish communication between processes to build parallel applications Program your own GPU cards to address complex problems Manage computing entities to execute distributed computational task Write efficient programs by adopting the event driven programming model Explore cloud technology with Django and Google App Engine Apply parallel programming techniques that can lead to performance improvements Who this book is for The Python Parallel Programming Cookbook is for software developers who are well versed with Python and want to use parallel programming techniques to write powerful and efficient code This book will help you master the basics and the advanced of parallel computing

Parallel and High Performance Programming with Python: Unlock Parallel and Concurrent Programming in Python using Multithreading, CUDA, Pytorch, and Dask Fabio Nelli,2023-04-12 Unleash the capabilities of Python and its libraries for solving high performance computational problems Key Features Explores parallel programming concepts and techniques for high performance computing Covers parallel algorithms multiprocessing distributed computing and GPU programming Provides practical use of popular Python libraries tools like NumPy Pandas Dask and TensorFlow Book Description This book will teach you everything about the powerful techniques and applications of parallel computing from the basics of parallel programming to the cutting edge innovations shaping the future of computing The book starts with an introduction to parallel programming and the different types of parallelism including parallel programming with threads and processes The book then delves into asynchronous programming distributed Python and GPU programming with Python providing you with the tools you need to optimize your programs for distributed and high performance computing The book also covers a wide range of applications for parallel computing including data science artificial intelligence and other complex scientific simulations You will learn about the challenges and opportunities presented by parallel computing for these applications and how to overcome them By the end of the book you will have insights into the future of parallel computing the latest research and developments in the field and explore the exciting possibilities that lie ahead What you will learn Build faster smarter and more efficient applications for data analysis machine learning and scientific computing Implement parallel algorithms in Python Best practices for designing implementing and scaling parallel programs in Python Who is this book for This book is aimed at software developers who wish to take their careers to the next level by improving

their skills and learning about concurrent and parallel programming It is also intended for Python developers who aspire to write fast and efficient programs and for students who wish to learn the fundamentals of parallel computing and its practical uses

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Parallel Programming with MPI Peter S. Pacheco,1997 **Patterns for Parallel Programming** Mattson,2004 **Is Parallel Programming Hard** Paul E. McKenney,2015-06-13 *Principles of Parallel Programming* Yun Calvin Lin, Lawrence Snyder,2008 **Python High Performance, Second Edition** Gabriele Lanaro,2017-05-24

Learn how to use Python to create efficient applications

About This Book

Identify the bottlenecks in your applications and solve them using the best profiling techniques

Write efficient numerical code in NumPy Cython and Pandas

Adapt your programs to run on multiple processors and machines with parallel programming

Who This Book Is For

The book is aimed at Python developers who want to improve the performance of their application

Basic knowledge of Python is expected

What You Will Learn

Write efficient numerical code with the NumPy and Pandas libraries

Use Cython and Numba to achieve native performance

Find bottlenecks in your Python code using profilers

Write asynchronous code using Asyncio and RxPy

Use Tensorflow and Theano for automatic parallelism in Python

Set up and run distributed algorithms on a cluster using Dask and PySpark

In Detail

Python is a versatile language that has found applications in many industries

The clean syntax rich standard library and vast selection of third party libraries make Python a wildly popular language

Python High Performance is a practical guide that shows how to leverage the power of both native and third party Python libraries to build robust applications

The book explains how to use various profilers to find performance bottlenecks and apply the correct algorithm to fix them

The reader will learn how to effectively use NumPy and Cython to speed up numerical code

The book explains concepts of concurrent programming and how to implement robust and responsive applications using Reactive programming

Readers will learn how to write code for parallel architectures using Tensorflow and Theano and use a cluster of computers for large scale computations using technologies such as Dask and PySpark

By the end of the book readers will have learned to achieve performance and scale from their Python applications

Style and approach

A step by step practical guide filled with real world use cases and examples

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