



# Parallel Programming with Python

*Jan Palach*

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# Parallel Programming with Python

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**Parallel Programming with Python** Jan Palach

**Develop efficient parallel systems using the robust Python environment**

## About This Book

- Demonstrates the concepts of Python parallel programming
- Boosts your Python computing capabilities
- Contains easy-to-understand explanations and plenty of examples

## Who This Book Is 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.

## What You Will Learn

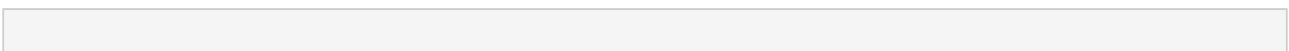
- Explore techniques to parallelize problems
- Integrate the Parallel Python module to implement Python code
- Execute parallel solutions on simple problems
- Achieve communication between processes using Pipe and Queue
- Use Celery Distributed Task Queue
- Implement asynchronous I/O using the Python asyncio module
- Create thread-safe structures

## 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.



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