

# Introduction to Parallel Programming and pMatlab v2.0

Hahn Kim, Julia Mullen, Jeremy Kepner  
{hgk, jsm, kepner}@ll.mit.edu  
MIT Lincoln Laboratory, Lexington, MA 02420

## Abstract

The computational demands of software continue to outpace the capacities of processor and memory technologies, especially in scientific and engineering programs. One option to improve performance is parallel processing. However, despite decades of research and development, writing parallel programs continues to be difficult. This is especially the case for scientists and engineers who have limited backgrounds in computer science. MATLAB<sup>®</sup>, due to its ease of use compared to other programming languages like C and Fortran, is one of the most popular languages for implementing numerical computations, thus making it an excellent platform for developing an accessible parallel computing framework.

The MIT Lincoln Laboratory has developed two libraries, pMatlab and MatlabMPI, that not only enables parallel programming with MATLAB in a simple fashion, accessible to non-computer scientists. This document will overview basic concepts in parallel programming and introduce pMatlab.

## 1. Introduction

Even as processor speeds and memory capacities continue to rise, they never seem to be able to satisfy the increasing demands of software; scientists and engineers routinely push the limits of computing systems to tackle larger, more detailed problems. In fact, they often must scale back the size and accuracy of their simulations so that they may complete in a reasonable amount of time or fit into memory. The amount of processing power directly impacts the scale of the problem being addressed.

One option for improving performance is parallel processing. There have been decades of research and development in hardware and software technologies to allow programs to run on multiple processors, improving the performance of computationally intensive applications. Yet writing accurate, efficient, high performance parallel code is still highly non-trivial, requiring a substantial amount of time and energy to master the discipline of high performance computing, commonly referred to as HPC. However, the primary concern of most scientists and engineers is conduct research, not to write code.

MATLAB<sup>®</sup> is the dominant programming language for implementing numerical computations and is widely used for algorithm development, simulation, data reduction, testing and evaluation. MATLAB users achieve high productivity because one line of MATLAB code can typically replace multiple lines of C or Fortran code. In addition, MATLAB supports a range of operating systems and processor architectures, providing portability and flexibility. Thus MATLAB provides an excellent platform on which to create an accessible parallel computing framework.

The MIT Lincoln Laboratory has been developing technology to allow MATLAB users to benefit from the advantages of parallel programming. Specifically, two MATLAB libraries –

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### **Table of Contents Chapter 29 Introduction To Parallel Programming**

1. Understanding the eBook Chapter 29 Introduction To Parallel Programming
  - The Rise of Digital Reading Chapter 29 Introduction To Parallel Programming
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 29 Introduction To Parallel Programming
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an eBook Chapter 29 Introduction To Parallel Programming
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 29 Introduction To Parallel Programming
  - Personalized Recommendations
  - Chapter 29 Introduction To Parallel Programming User Reviews and Ratings

- Chapter 29 Introduction To Parallel Programming and Bestseller Lists
- 5. Accessing Chapter 29 Introduction To Parallel Programming Free and Paid eBooks
  - Chapter 29 Introduction To Parallel Programming Public Domain eBooks
  - Chapter 29 Introduction To Parallel Programming eBook Subscription Services
  - Chapter 29 Introduction To Parallel Programming Budget-Friendly Options
- 6. Navigating Chapter 29 Introduction To Parallel Programming eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 29 Introduction To Parallel Programming Compatibility with Devices
  - Chapter 29 Introduction To Parallel Programming Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 29 Introduction To Parallel Programming
  - Highlighting and Note-Taking Chapter 29 Introduction To Parallel Programming
  - Interactive Elements Chapter 29 Introduction To Parallel Programming
- 8. Staying Engaged with Chapter 29 Introduction To Parallel Programming
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 29 Introduction To Parallel Programming
- 9. Balancing eBooks and Physical Books Chapter 29 Introduction To Parallel Programming
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 29 Introduction To Parallel Programming
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 29 Introduction To Parallel Programming
  - Setting Reading Goals Chapter 29 Introduction To Parallel Programming
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 29 Introduction To Parallel Programming
  - Fact-Checking eBook Content of Chapter 29 Introduction To Parallel Programming
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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