Introduction to Parallel Programming and pMatlab v2.0

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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®, 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 of 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® 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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M Lipman

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   Introduction to Programming with Fortran Ian Chivers,Jane Sleightholme,2015-08-07 In response to feedback from course delegates this third edition has been revised throughout It expands on the second edition with new and updated examples in the chapters on arithmetic i o character data modules data structuring and generic programming with minor updates to the rest of the chapters Key Features lots of clear simple examples highlighting the core language features of modern Fortran including data typing array processing control structures functions subroutines modules user defined types pointers operator overloading generic programming object oriented programming and parallel programming pinpoints common problems that occur when programming illustrates the use of several compilers with better standards conformance in compilers there are new examples illustrating the following major features C Interop IEEE arithmetic parameterised derived types Introduction to Programming with Fortran will appeal to the complete beginner existing Fortran programmers wishing to update their code and those with programming experience in other languages   Visual Basic 2010 Unleashed Alessandro Del Sole,2010-05-07 Visual Basic 2010 Unleashed is the most comprehensive practical reference to modern object oriented programming with Visual Basic 2010 Written by Visual Basic MVP Alessandro Del Sole a long time leader of the global VB community this book illuminates the core of the VB language and demonstrates its effective use in a wide variety of programming scenarios Del Sole covers both Visual Basic 2010 Professional Edition for professional developers and the Express Edition for hobbyists novices and students Writing for VB programmers at all levels of experience he walks through using VB 2010 for data access user interface development networking communication and many other tasks For those moving from structured languages including VB 6 he offers detailed guidance on building effective object oriented code He also demonstrates how to make the most of Microsoft s underlying NET platform to write more robust and powerful software This book s broad coverage includes advanced features such as generics and collections a thorough introduction to the Visual Studio 2010 IDE and Visual Studio Team System a full section on data access with ADO NET and LINQ practical overviews of WPF and WCF coverage of web and cloud development with Silverlight and Azure and advanced topics such as multithreading testing and deployment Understand the Visual Studio 2010 IDE NET Framework 4 0 and the anatomy of a VB 2010 application Debug VB applications and implement error handling and exceptions Build efficient object oriented software with classes objects namespaces and inheritance Work with advanced object oriented features including interfaces generics delegates events and collections Organize create and improve classes with the Visual Studio Class Designer Access data with LINQ including LINQ to Objects SQL DataSets Entities XML and Parallel LINQ Build modern Windows applications with WPF controls brushes styles and templates Develop web centric applications using ASP NET Silverlight and Windows Azure Services cloud computing Create and consume WCF services and WCF Data Services Use advanced NET 4 0 platform capabilities including assemblies multithreading parallel programming P Invoke and COM interoperability Perform advanced

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Handbook Albert Y. Zomaya,1996 With over 1 000 pages and a wealth of illustrations and data tables this handbook offers readers the first information source with the scope to encompass the parallel and distributed computing revolution Written by an international team of experts the book summarizes the current state of the art interprets the most promising trends and spotlights commercial applications **Introduction to Parallel Computing** Theodore Gyle Lewis,Hesham El-Rewini,In-Kyu Kim,1992 Mathematics of Computing Parallelism **Professional C# 7 and .NET Core 2.0** Christian Nagel,2018-03-21 The professional s guide to C 7 with expert guidance on the newest features Professional C 7 and NET Core 2 0 provides experienced programmers with the information they need to work effectively with the world s leading programming language The latest C update added many new features that help you get more done in less time and this book is your ideal guide for getting up to speed quickly C 7 focuses on data consumption code simplification and performance with new support for local functions tuple types record types pattern matching non nullable reference types immutable types and better support for variables Improvements to Visual Studio will bring significant changes to the way C developers interact with the space bringing NET to non Microsoft platforms and incorporating tools from other platforms like Docker Gulp and NPM Guided by a leading NET expert and steeped in real world practicality this guide is designed to get you up to date and back to work With Microsoft speeding up its release cadence while offering more significant improvement with each update it has never been more important to get a handle on new tools and features quickly This book is designed to do just that and more everything you need to know about C is right here in the single volume resource on every developer s shelf Tour the many new and enhanced features packed into C 7 and NET Core 2 0 Learn how the latest Visual Studio update makes developers jobs easier Streamline your workflow with a new focus on code simplification and performance enhancement Delve into improvements made for localization networking diagnostics deployments and more Whether you re entirely new to C or just transitioning to C 7 having a solid grasp of the latest features allows you to exploit the language s full functionality to create robust high quality apps Professional C 7 and NET Core 2 0 is the one stop guide to everything you need to know **Financial Instrument Pricing Using C++** Daniel J. Duffy,2018-10-01 An integrated guide to C and computational finance This complete guide to C and computational finance is a follow up and major extension to Daniel J Duffy s 2004 edition of Financial Instrument Pricing Using C Both C and computational finance have evolved and changed dramatically in the last ten years and this book documents these improvements Duffy focuses on these developments and the advantages for the quant developer by Delving into a detailed account of the new C 11 standard and its applicability to computational finance Using de facto standard libraries such as Boost and Eigen to improve developer productivity Developing multiparadigm software using the object oriented generic and functional programming styles Designing flexible numerical algorithms modern numerical methods and multiparadigm design patterns Providing a detailed explanation of the Finite Difference Methods through six chapters including new developments such as ADE Method of Lines MOL and Uncertain

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