

# ACCELERATING MATLAB WITH GPU COMPUTING

A Primer with Examples



Jung W. Suh  
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# Accelerating Matlab With Gpu Computing A Primer With Examples

**Vasant, Pandian,M., Kalaivanthan**

## **Accelerating Matlab With Gpu Computing A Primer With Examples:**

**Accelerating MATLAB with GPU Computing** Jung W. Suh, Youngmin Kim, 2013-11-18 Beyond simulation and algorithm development many developers increasingly use MATLAB even for product deployment in computationally heavy fields. This often demands that MATLAB codes run faster by leveraging the distributed parallelism of Graphics Processing Units (GPUs). While MATLAB successfully provides high level functions as a simulation tool for rapid prototyping, the underlying details and knowledge needed for utilizing GPUs make MATLAB users hesitate to step into it. Accelerating MATLAB with GPUs offers a primer on bridging this gap. Starting with the basics setting up MATLAB for CUDA in Windows, Linux and Mac OS X and profiling it, then guides users through advanced topics such as CUDA libraries. The authors share their experience developing algorithms using MATLAB C and GPUs for huge datasets, modifying MATLAB codes to better utilize the computational power of GPUs and integrating them into commercial software products. Throughout the book they demonstrate many example codes that can be used as templates of C MEX and CUDA codes for readers' projects. Download example codes from the publisher's website <http://booksites.elsevier.com/9780124080805>. Shows how to accelerate MATLAB codes through the GPU for parallel processing with minimal hardware knowledge. Explains the related background on hardware architecture and programming for ease of use. Provides simple worked examples of MATLAB and CUDA C codes as well as templates that can be reused in real world projects.

**Accelerating MATLAB Performance** Yair M. Altman, 2014-12-11 The MATLAB programming environment is often perceived as a platform suitable for prototyping and modeling but not for serious applications. One of the main complaints is that MATLAB is just too slow. Accelerating MATLAB Performance aims to correct this perception by describing multiple ways to greatly improve MATLAB program speed. Packed with the

**Recent Progress in Parallel and Distributed Computing** Wen-Jyi Hwang, 2017-07-19 Parallel and distributed computing has been one of the most active areas of research in recent years. The techniques involved have found significant applications in areas as diverse as engineering, management, natural sciences and social sciences. This book reports state of the art topics and advances in this emerging field. Completely up to date aspects it examines include the following: 1. Social networks 2. Smart grids 3. Graphic processing unit computation 4. Distributed software development tools 5. Analytic hierarchy process and the analytic network process.

**Emerging Computing Techniques in Engineering** Matthew N. O. Sadiku, 2022-11-17 The book is divided into three volumes to cover all computing topics. This is the first volume and it has 23 chapters. It focuses on general computing techniques such as cloud computing, grid computing, pervasive computing, optical computing, web computing, parallel computing, distributed computing, high performance computing, GPU computing, exascale computing, in memory computing, embedded computing, quantum computing and green computing.

**CUDA for Engineers** Duane Storti, Mete Yurtoglu, 2015-11-02 CUDA for Engineers gives you direct hands on engagement with personal high performance parallel computing, enabling you to do computations on a gaming level PC that would have required a

supercomputer just a few years ago. The authors introduce the essentials of CUDA C programming clearly and concisely quickly guiding you from running sample programs to building your own code. Throughout you'll learn from complete examples you can build, run and modify complemented by additional projects that deepen your understanding. All projects are fully developed with detailed building instructions for all major platforms. Ideal for any scientist, engineer or student with at least introductory programming experience, this guide assumes no specialized background in GPU based or parallel computing. In an appendix the authors also present a refresher on C programming for those who need it. Coverage includes: Preparing your computer to run CUDA programs; Understanding CUDA's parallelism model and C extensions; Transferring data between CPU and GPU; Managing timing, profiling, error handling and debugging; Creating 2D grids; Interoperating with OpenGL to provide real time user interactivity; Performing basic simulations with differential equations; Using stencils to manage related computations across threads; Exploiting CUDA's shared memory capability to enhance performance; Interacting with 3D data slicing, volume rendering and ray casting; Using CUDA libraries; Finding more CUDA resources and code. Realistic example applications include: Visualizing functions in 2D and 3D; Solving differential equations while changing initial or boundary conditions; Viewing, processing images or image stacks; Computing inner products and centroids; Solving systems of linear algebraic equations; Monte Carlo computations.

**Business Process Management Workshops** Manfred Reichert, Hajo A. Reijers, 2016-07-25. This book constitutes the refereed proceedings of ten international workshops held in Innsbruck, Austria in conjunction with the 13th International Conference on Business Process Management (BPM) 2015 in September 2015. The seven workshops comprised Adaptive Case Management and other Non workflow Approaches to BPM, AdaptiveCM 2015, Business Process Intelligence BPI 2015, Social and Human Aspects of Business Process Management, BPMS2 2015, Data and Artifact centric BPM, DAB 2015, Decision Mining and Modeling for Business Processes, DeMiMoP 2015, Process Engineering IWPE 2015 and Theory and Applications of Process Visualization TaProViz 2015. The 42 revised papers presented were carefully reviewed and selected from 104 submissions. In addition four short papers and one keynote from TaProViz are also included in this book.

**Self-Organizing Migrating Algorithm** Donald Davendra, Ivan Zelinka, 2016-02-04. This book brings together the current state of the art research in Self Organizing Migrating Algorithm (SOMA) as a novel population based evolutionary algorithm modeled on the predator-prey relationship by its leading practitioners. As the first ever book on SOMA this book is geared towards graduate students, academics and researchers who are looking for a good optimization algorithm for their applications. This book presents the methodology of SOMA covering both the real and discrete domains and its various implementations in different research areas. The easy to follow and implement methodology used in the book will make it easier for a reader to implement, modify and utilize SOMA.

**Handbook of Research on Holistic Optimization Techniques in the Hospitality, Tourism, and Travel Industry** Vasant, Pandian, M., Kalaivanthan, 2016-10-31. The application of holistic optimization methods in the tourism, travel and

hospitality industry has improved customer service and business strategies within the field. By utilizing new technologies and optimization techniques, it is becoming easier to troubleshoot problematic areas within the travel industry. The *Handbook of Research on Holistic Optimization Techniques in the Hospitality, Tourism and Travel Industry* features innovative technologies being utilized in the management of hotels and tourist attractions. Highlighting empirical research on the optimization of the travel and hospitality industry through the use of algorithms and information technology, this book is a critical reference source for managers, decision makers, executives, tourists, agents, researchers, economists and hotel staff members.

**GPU Programming in MATLAB** Nikolaos Ploskas, Nikolaos Samaras, 2016-08-25 GPU programming in MATLAB is intended for scientists, engineers, or students who develop or maintain applications in MATLAB and would like to accelerate their codes using GPU programming without losing the many benefits of MATLAB. The book starts with coverage of the Parallel Computing Toolbox and other MATLAB toolboxes for GPU computing, which allow applications to be ported straightforwardly onto GPUs without extensive knowledge of GPU programming. The next part covers built-in GPU enabled features of MATLAB, including options to leverage GPUs across multicore or different computer systems. Finally, advanced material includes CUDA code in MATLAB and optimizing existing GPU applications. Throughout the book, examples and source codes illustrate every concept so that readers can immediately apply them to their own development. Provides in-depth comprehensive coverage of GPUs with MATLAB, including the parallel computing toolbox and built-in features for other MATLAB toolboxes. Explains how to accelerate computationally heavy applications in MATLAB without the need to re-write them in another language. Presents case studies illustrating key concepts across multiple fields. Includes source code, sample datasets, and lecture slides.

*Accelerating Scientific Computing Models Using GPU Processing* Raymond Forrest Flagg (III), 2015 **Big Data Processing With Matlab** A. Smith, 2017-11-12 Big data analytics examines large amounts of data to uncover hidden patterns, correlations, and other insights. With today's technology, it's possible to analyze your data and get answers from it almost immediately—an effort that's slower and less efficient with more traditional business intelligence solutions. MATLAB has the tools to work with large datasets and apply the necessary data analysis techniques. Parallel computing allows you to carry out many calculations simultaneously. Large problems can often be split into smaller ones, which are then solved at the same time. The main reasons to consider parallel computing are to save time by distributing tasks and executing these simultaneously. Solve big data problems by distributing data. Take advantage of your desktop computer resources and scale up to clusters and cloud computing. Parallel Computing Toolbox provides you with tools for a local cluster of workers on your client machine. MATLAB Distributed Computing Server software allows you to run as many MATLAB workers on a remote cluster of computers as your licensing allows. Most MathWorks products enable you to run applications in parallel. For example, Simulink models can run simultaneously in parallel. MATLAB Compiler and MATLAB Compiler SDK software let you build and deploy parallel applications. Several MathWorks products now offer built-in support.

for the parallel computing products without requiring extra coding. Many applications involve multiple segments of code some of which are repetitive. Often you can use for loops to solve these cases. The ability to execute code in parallel on one computer or on a cluster of computers can significantly improve performance in many cases. Parallel Computing Toolbox software improves the performance of such loop execution by allowing several MATLAB workers to execute individual loop iterations simultaneously. Even running local workers all on the same machine as the client you might see significant performance improvement on a multicore multiprocessor machine. So whether your loop takes a long time to run because it has many iterations or because each iteration takes a long time you can improve your loop speed by distributing iterations to MATLAB workers. When working interactively in a MATLAB session you can offload work to a MATLAB worker session to run as a batch job. The command to perform this job is asynchronous which means that your client MATLAB session is not blocked and you can continue your own interactive session while the MATLAB worker is busy evaluating your code. The MATLAB worker can run either on the same machine as the client or if using MATLAB Distributed Computing Server on a remote cluster machine. If you have an array that is too large for your computer's memory it cannot be easily handled in a single MATLAB session. Parallel Computing Toolbox software allows you to distribute that array among multiple MATLAB workers so that each worker contains only a part of the array. Yet you can operate on the entire array as a single entity. Each worker operates only on its part of the array and workers automatically transfer data between themselves when necessary as for example in matrix multiplication. A large number of matrix operations and functions have been enhanced to work directly with these arrays without further modification. When writing code for Parallel Computing Toolbox software you should advance one step at a time in the complexity of your application. Verifying your program at each step prevents you from having to debug several potential problems simultaneously. If you run into any problems at any step along the way back up to the previous step and reverify your code.

*Approaches for MATLAB Applications Acceleration Using High Performance Reconfigurable Computers*, 2003. A lot of raw computing power is needed in many scientific computing applications and simulations. MATLAB is one of the popular choices as a language for technical computing. Presented here are approaches for MATLAB based applications acceleration using High Performance Reconfigurable Computing (HPRC) machines. Typically these are a cluster of Von Neumann architecture based systems with one or more FPGA reconfigurable boards. As a case study an Image Correlation Algorithm has been ported on this architecture platform. As a second case study the recursive training process in an Artificial Neural Network (ANN) to realize an optimum network has been accelerated by porting it to HPC Systems. The approaches taken are analyzed with respect to target scenarios and users perspective programming efficiency and performance.

**GPU Programming with CUDA and Tensor Cores** Martin Dunagan, 2025-09-18 GPU Programming with CUDA and Tensor Cores Harness Parallel Processing for AI Machine Learning and High Performance Applications. Unlock the full potential of GPU computing with this hands on guide to CUDA programming and Tensor Core acceleration.

Whether you are an engineer researcher data scientist or advanced developer this book gives you the knowledge and practical techniques to build high performance applications that scale Inside you ll master the foundations of CUDA programming learn how to manage threads warps and memory hierarchies and understand how to design efficient parallel algorithms You ll also discover how Tensor Cores accelerate matrix operations and mixed precision training enabling breakthroughs in deep learning AI and scientific simulation Key topics include Writing efficient CUDA kernels and optimizing GPU memory usage Performing reductions scans and parallel matrix operations Leveraging cuBLAS cuDNN cuFFT and NCCL libraries for performance Implementing real world workloads like image classification object detection and large scale scientific simulations Profiling debugging and scaling applications across multiple GPUs Benchmarking CPU vs GPU vs Tensor Core performance for critical insights Through detailed explanations authentic code examples and real world case studies this book bridges the gap between theory and practice giving you the tools to design implement and optimize GPU powered solutions across AI machine learning data science and HPC If you are serious about mastering GPU acceleration and want to stay ahead in AI and high performance computing this is the essential resource you need Take the next step in your development journey equip yourself with the skills to build faster smarter and more scalable applications Get your copy today and harness the power of CUDA and Tensor Cores

[MATLAB Machine Learning Recipes](#) Michael Paluszak,Stephanie Thomas,2024-03-01

Harness the power of MATLAB to resolve a wide range of machine learning challenges This new and updated third edition provides examples of technologies critical to machine learning Each example solves a real world problem and all code provided is executable You can easily look up a particular problem and follow the steps in the solution This book has something for everyone interested in machine learning It also has material that will allow those with an interest in other technology areas to see how machine learning and MATLAB can help them solve problems in their areas of expertise The chapter on data representation and MATLAB graphics includes new data types and additional graphics

Chapters on fuzzy logic simple neural nets and autonomous driving have new examples added And there is a new chapter on spacecraft attitude determination using neural nets Authors Michael Paluszak and Stephanie Thomas show how all of these technologies allow you to build sophisticated applications to solve problems with pattern recognition autonomous driving expert systems and much more What You Will Learn Write code for machine learning adaptive control and estimation using MATLAB Use MATLAB graphics and visualization tools for machine learning Become familiar with neural nets Build expert systems Understand adaptive control Gain knowledge of Kalman Filters Who This Book Is For Software engineers control engineers university faculty undergraduate and graduate students hobbyists

[MATLAB Primer](#) Kermit Sigmon,1994-08-29

This text provides a guide to using MATLAB problem solving software This fourth edition contains a substantial new section on the Symbolic Math Toolbox which merges the symbolic capabilities of the software Maple with the numerical capabilities of MATLAB

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