Accelerating MATLAB with GPU Computing

A Primer with Examples

Jung W. Suh Youngmin Kim



<u>Accelerating Matlab With Gpu Computing A Primer With</u> <u>Examples</u>

Léo Pomar

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 booksite 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 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 extreme computing in memory computing embedded computing quantum computing and green Self-Organizing Migrating Algorithm Donald Davendra, Ivan Zelinka, 2016-02-04 This book brings together the computing 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 **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 **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

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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 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 tho 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 Matlab With Gpu Computing A Primer With Examples Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "Accelerating Matlab With Gpu Computing A Primer With Examples," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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