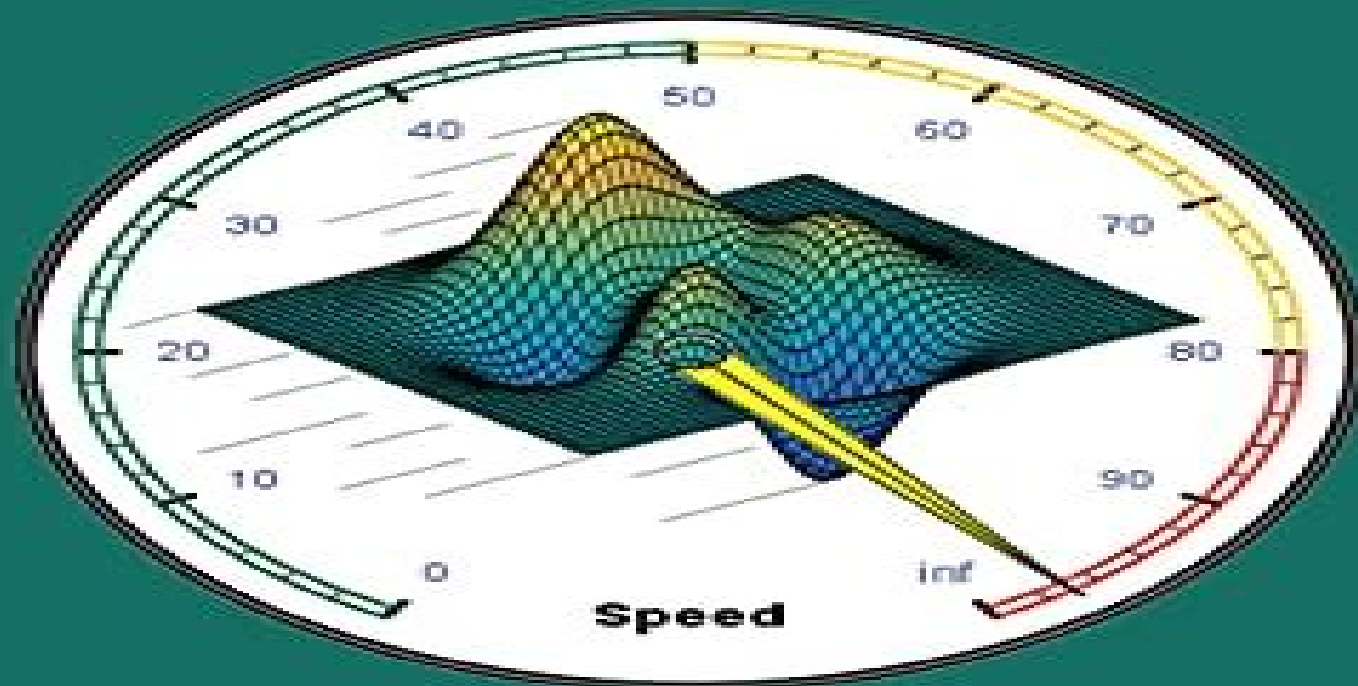


Accelerating MATLAB® Performance

1001 tips to speed up MATLAB programs



Yair Altman

Accelerating Matlab Performance 1001 Tips To Speed Up Matlab Programs

David E. Hiebeler



Accelerating Matlab Performance 1001 Tips To Speed Up Matlab Programs:

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 thousands of helpful tips it leaves no stone unturned discussing every aspect of MATLAB Ideal for novices and professionals alike the book describes MATLAB performance in a scale and depth never before published It takes a comprehensive approach to MATLAB performance illustrating numerous ways to attain the desired speedup The book covers MATLAB CPU and memory profiling and discusses various tradeoffs in performance tuning It describes both the application of standard industry techniques in MATLAB as well as methods that are specific to MATLAB such as using different data types or built in functions The book covers MATLAB vectorization parallelization implicit and explicit optimization memory management chunking and caching It explains MATLAB's memory model and details how it can be leveraged It describes the use of GPU MEX FPGA and other forms of compiled code as well as techniques for speeding up deployed applications It details specific tips for MATLAB GUI graphics and I/O It also reviews a wide variety of utilities libraries and toolboxes that can help to improve performance Sufficient information is provided to allow readers to immediately apply the suggestions to their own MATLAB programs Extensive references are also included to allow those who wish to expand the treatment of a particular topic to do so easily Supported by an active website and numerous code examples the book will help readers rapidly attain significant reductions in development costs and program run times

Transient Analysis of Power Systems Juan A. Martinez-Velasco, 2020-02-10 A hands on introduction to advanced applications of power system transients with practical examples Transient Analysis of Power Systems A Practical Approach offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications involving the creation of custom made models and tools and the application of multicore environments for advanced studies The authors cover the general aspects of the transient analysis such as modelling guidelines solution techniques and capabilities of a transient tool The book also explores the usual application of a transient tool including over voltages power quality studies and simulation of power electronics devices In addition it contains an introduction to the transient analysis using the ATP All the studies are supported by practical examples and simulation results This important book Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building

custom made models and libraries of modules supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time domain simulation tools Includes a companion website with data input files of examples presented case studies and power point presentations used to support cases studies Written for EMTP users electrical engineers Transient Analysis of Power Systems is a hands on and practical guide to advanced applications of power system transients that includes a range of practical examples

Numerical Methods and Optimization in Finance Manfred Gilli,Dietmar Maringer,Enrico Schumann,2019-08-16 Computationally intensive tools play an increasingly important role in financial decisions Many financial problems ranging from asset allocation to risk management and from option pricing to model calibration can be efficiently handled using modern computational techniques Numerical Methods and Optimization in Finance presents such computational techniques with an emphasis on simulation and optimization particularly so called heuristics This book treats quantitative analysis as an essentially computational discipline in which applications are put into software form and tested empirically This revised edition includes two new chapters a self contained tutorial on implementing and using heuristics and an explanation of software used for testing portfolio selection models Postgraduate students researchers in programs on quantitative and computational finance and practitioners in banks and other financial companies can benefit from this second edition of Numerical Methods and Optimization in Finance

Nonlinear and Constrained Control Emanuele Garone,Ilya Kolmanovsky,Tam W. Nguyen,2025-09-22 This book focuses on recent advances in and applications of constrained and nonlinear control The first part concentrates on theoretical aspects highlighting synergies between constrained and nonlinear control and explaining challenges and opportunities The second part examines practical applications This collection originated from a workshop at the Royal Academy of Belgium The volume features contributions from authors based in both academia and industry Each chapter provides an introduction to a specific research area reports new findings and comments on challenges and future research opportunities The book serves as an entry point for readers interested in recent developments in constrained and nonlinear control

R and MATLAB David E. Hiebeler,2018-09-03 The First Book to Explain How a User of R or MATLAB Can Benefit from the Other In today's increasingly interdisciplinary world R and MATLAB users from different backgrounds must often work together and share code R and MATLAB is designed for users who already know R or MATLAB and now need to learn the other platform The book makes the transition from one platform to the other as quick and painless as possible Enables R and MATLAB Users to Easily Collaborate and Share Code The author covers essential tasks such as working with matrices and vectors writing functions and other programming concepts graphics numerical computing and file input output He highlights important differences between the two platforms and explores common mistakes that are easy to make when transitioning from one platform to the other

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

Efficient JIT Compilation of MATLAB Loops Matthieu Dubet, 2014 MATLAB is a dynamic numerical scripting language widely used by scientists engineers and students It is praised because it allows fast prototyping especially for numerical programs which manipulate matrices However numerical software can be computationally heavy and MATLAB as most interpreted languages suffers from slow performance as compared to traditionally compiled languages such as FORTRAN or C One way to provide better performance for interpreted languages is through just in time compilation where the program or part of the program is compiled at run time In this thesis we introduce SJIT a just in time compiler for MATLAB which focuses on providing good performance while keeping the compilation time extremely small It is designed to integrate easily and transparently into an existing interpreter for MATLAB named McVM and generates highly efficient assembly code intensive parts of the program namely loops In addition to its use for accelerating whole MATLAB programs it is also suitable for accelerating the execution of fragments of MATLAB code inside an interactive environment such as a read eval print loop In addition to the SJIT compiler this thesis also contributes an efficient framework to develop static dataflow analyses and a type inference analysis implemented within this framework The SJIT compiler has been evaluated both in terms of compilation time and execution time on a collection of MATLAB benchmarks using traditional features such as matrices and structures The results show that 1 the achieved performance is several times faster than the original MATLAB implementation and 2 that the compilation time is very reasonable taking only a small fraction of the overall time

Fastnumerics Sujana Khadka, 2016 Matlab is a popular language among researchers and scientists It allows mathematical and scientific calculations to be formulated in a way that is close to mathematical notation which makes developing prototypes easier and faster Our preliminary results show that computation intensive programs written in Matlab tend to be slower than equivalent programs written in C C being a

compiled language exposes advanced optimization opportunities that will help speed up sequential code as compared to Matlab Hence there is a need to translate Matlab code to languages like C C for maximum performance C also provides libraries to run a program in heterogeneous architectures like co processors GPUs and in distributed environments Although Matlab makes it possible to run Matlab codes in parallel and in GPUs using its parallel toolbox we would like to utilize C to squeeze out maximum performance and gain more portability With C we gain more flexibility and portability to run in any architectures and environments due to the ubiquity of C compilers Manual translation to C is one option but it is tedious cost inefficient and can introduce errors In this thesis we introduce a tool to automatically compile translate Matlab programs to C The code generated will rely on existing numerical libraries We would like researchers to continue writing codes in Matlab but also have the added benefit of being able to run their translated code much faster and possibly on heterogeneous architectures

MATLAB and Simulink Code Generation F Marquez,2019-04-07 Generating code from MATLAB algorithms for desktop and embedded systems allows you to perform your software design implementation and testing completely within the MATLAB workspace You can Verify that your algorithms are suitable for code generation Generate efficient readable and compact C C code automatically which eliminates the need to manually translate your MATLAB algorithms and minimizes the risk of introducing errors in the code Modify your design in MATLAB code to take into account the specific requirements of desktop and embedded applications such as data type management memory use and speed Test the generated code and easily verify that your modified algorithms are functionally equivalent to your original MATLAB algorithms Generate MEX functions to Accelerate MATLAB algorithms in certain applications Speed up fixed poin MATLAB code Generate hardware description language HDL from MATLAB code To generate C C or MEX code from MATLAB algorithms you must install the following software MATLAB Coder product C C compiler When writing MATLAB code that you want to convert into efficient standalone C C code you must consider the following Data types C and C use static typing To determine the types of your variables before use MATLAB Coder requires a complete assignment to each variable Array sizing Variable size arrays and matrices are supported for code generation You can define inputs outputs and local variables in MATLAB functions to represent data that varies in size at run time Memory You can choose whether the generated code uses static or dynamic memory allocation With dynamic memory allocation you potentially use less memory at the expense of time to manage the memory With static memory you get better speed but with higher memory usage Most MATLAB code takes advantage of the dynamic sizing features in MATLAB therefore dynamic memory allocation typically enables you to generate code from existing MATLAB code without modifying it much Dynamic memory allocation also allows some programs to compile even when upper bounds cannot be found Static allocation reduces the memory footprint of the generated code and therefore issuitable for applications where there is a limited amount of available memory such as embedded applications

MATLAB Getting Started in 4 Hours Gayan Dilantha Illeperuma,2023-10-23 Discover MATLAB in 4 hours There are times when you

want to get data analyzed quickly or to create a small program to get something done but you do not have enough time to learn everything from the bottom up If this is the case for you you have found the best book for this purpose This book is designed to teach you the most important and most frequently used techniques of MATLAB in a very short period of time It will teach you how to Get start with MATLAB GUI Write MATLAB programs Use symbolic mathematics Plot figures and graphs Each chapter of the book starts with simple examples and gradually increase in complexity Each section is accompanied by important theories background information and exercises Sections also include further references and exceptions for further explorations

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