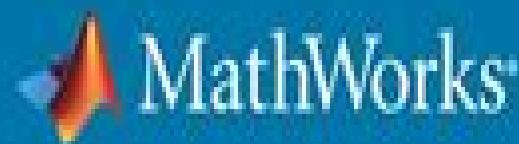


LIVESTREAM

# Code Generation from MATLAB and Simulink

## From Prototyping to Implementation



# Matlab Code Generation Tutorial

**Clemens Wendtner**

## Matlab Code Generation Tutorial:

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

Teaching Electromagnetics Krishnasamy T. Selvan, Karl F. Warnick, 2021-06-17 Teaching Electromagnetics Innovative Approaches and Pedagogical Strategies is a guide for educators addressing course content and pedagogical methods primarily at the undergraduate level in electromagnetic theory and its applications Topics include teaching methods lab experiences and hands on learning and course structures that help teachers respond effectively to trends in learning styles and evolving engineering curricula The book grapples with issues related to the recent worldwide shift to remote teaching Each chapter begins with a high level consideration of the topic reviews previous work and publications and gives the reader a broad picture of the topic before delving into details Chapters include specific guidance for those who want to implement the methods and assessment results and evaluation of the effectiveness of the methods Respecting the limited time available to the average teacher to try new methods the chapters focus on why an instructor should adopt the methods proposed in it Topics include virtual laboratories computer assisted learning and MATLAB tools The authors also review flipped classrooms and online teaching methods that support remote teaching and learning The end result should be an impact on the reader represented by improvements to his or her practical teaching methods and curricular approach to electromagnetics education The book is intended for electrical engineering professors students lab instructors and practicing

engineers with an interest in teaching and learning In summary this book Surveys methods and tools for teaching the foundations of wireless communications and electromagnetic theory Presents practical experience and best practices for topical coverage course sequencing and content Covers virtual laboratories computer assisted learning and MATLAB tools Reviews flipped classroom and online teaching methods that support remote teaching and learning Helps instructors in RF systems field theory and wireless communications bring their teaching practice up to date Dr Krishnasamy T Selvan is Professor in the Department of Electronics Communication Engineering SSN College of Engineering since June 2012 Dr Karl F Warnick is Professor in the Department of Electrical and Computer Engineering at BYU *Simulink Code Generation* National Aeronautics and Space Adm Nasa,2020-06-30 This document explains all the necessary steps in order to generate optimized C code from Simulink Models This document also covers some general information on good programming practices selection of variable types how to organize models and subsystems and finally how to test the generated C code and compare it with data from MATLAB MolinaFraticelli Jose Carlos Marshall Space Flight Center M12 1760 41024 COMPUTER PROGRAMMING C PROGRAMMING LANGUAGE SOFTWARE ENGINEERING PROGRAMMING ENVIRONMENTS

SIMULATION DATA STRUCTURES *Intelligent Algorithms in Software Engineering* Radek Silhavy,2020-08-08 This book gathers the refereed proceedings of the Intelligent Algorithms in Software Engineering Section of the 9th Computer Science On line Conference 2020 CSOC 2020 held on line in April 2020 Software engineering research and its applications to intelligent algorithms have now assumed an essential role in computer science research In this book modern research methods together with applications of machine and statistical learning in software engineering research are presented

**Simulation and Software Radio for Mobile Communications** Hiroshi Harada,Ramjee Prasad,2002 This cutting edge first of its kind resource gives you a comprehensive understanding of the simulation and evaluation methods used for today s mobile communication systems Written by two highly regarded experts in the field the book focuses on the performance of both the physical and protocol layer transmission scheme It defines and presents several invaluable simulation tools written in MATLAB code along with clear examples that explain their use *Digital Signal Processing in Power Electronics Control Circuits* Krzysztof Sozański,2017-05-10 This revised and extended second edition covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing DSP methods This book discusses signal processing starting from analog signal acquisition through conversion to digital form methods of filtration and separation and ending with pulse control of output power transistors The book is focused on two applications for the considered methods of digital signal processing a three phase shunt active power filter and a digital class D audio power amplifier The book bridges the gap between power electronics and digital signal processing Many control algorithms and circuits for power electronics in the current literature are described using analog transmittances This may not always be acceptable especially if half of the sampling frequencies and half of the power transistor switching frequencies are close to

the band of interest Therefore in this book a digital circuit is treated as a digital circuit with its own peculiar characteristics rather than an analog circuit This helps to avoid errors and instability This edition includes a new chapter dealing with selected problems of simulation of power electronics systems together with digital control circuits The book includes numerous examples using MATLAB and PSIM programs

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**Transmission Systems** William Turin,2004 This book describes mathematical methods for analyzing digital transmission system performance In contrast with publications that use an idealistic model of channels with independent errors this book shows how to evaluate performance characteristics of information transmission systems in real communication channels with bursts of noise The book shows how to apply hidden Markov Models HMMs to model and analyze performance of communications systems including error correction codes and communication protocols in channels with memory This edition includes a new chapter describing the theory and applications of continuous state HMMs Methods developed in the book have broad applications in queuing theory speech and image recognition signature verification control theory artificial intelligence biology fraud detection and finance The attached CD ROM contains numerous MATLAB R programs implementing the theory described in the book With a rich assortment of chapter ending problems and illustrations the book and CD ROM are perfect for the study of HMM methods or for use as a classroom text

*Simulink Code Generation* Jose Carlos Molinafraticelli,Nasa Technical Reports Server (Ntrs),2013-07 This document explains all the necessary steps in order to generate optimized C code from Simulink Models This document also covers some general information on good programming practices selection of variable types how to organize models and subsystems and finally how to test the generated C code and compare it with data from MATLAB

### **28th Annual NASA/IEEE Software Engineering Workshop**

**Tutorial Notes** ,2003 This text contains the tutorial notes from the 2003 NASA Software Engineering Workshop This volume contains two tutorials that are oriented to practitioners in the area of real time software development

[The MATLAB Project Book for Linear Algebra](#) Rick L. Smith,1997

### **DSP Blockset** ,1997

### **Guide for Dummies: from MATLAB to**

**C++ through the MATLAB Coder** Filippo Piccinini,Sofia Belloni,2021-06-21 Nowadays many of the tools and applications used in the biomedical field are developed in MATLAB The MathWorks Inc MA USA However the C code is license free so better suits the policy of code distributed in the form of Open Source To facilitate the conversion from MATLAB to C MATLAB developers have recently created a toolbox called MATLAB Coder containing various functions and tools to facilitate a semi automatic code conversion In this book using significant examples of increasing complexity we show how to quickly and easily exploit the MATLAB Coder to create lib static libraries exe executables and cpp source code starting from MATLAB m functions SINOSSI Al giorno d oggi molti dei tools ed applicativi utilizzati in campo biomedicale sono sviluppati in linguaggio MATLAB The MathWorks Inc MA USA Tuttavia il codice C non essendo collegato a licenze di utilizzo meglio si adatta alla politica di codice distribuito in forma di Open Source Per facilitare la conversione dal linguaggio MATLAB al linguaggio C gli

sviluppatori MATLAB hanno recentemente realizzato un toolbox chiamato MATLAB Coder contenente varie funzioni e strumenti per facilitare la conversione semi automatica del codice In questo libro utilizzando esempi significativi di complessità crescente mostriamo come sfruttare in maniera facile e veloce il MATLAB Coder per realizzare librerie statiche lib eseguibili exe e codice sorgente cpp partendo da funzioni MATLAB m

**Report Generator**, 1999      **Simulink Fixed**

**Point for Use with Simulink**, 2006      Computer Aided Design in Control Systems International Federation of Automatic Control, 1992 Hardbound The tone of the Proceedings is set by the three Plenary papers and the remaining papers are arranged under the coherent themes of environment computational methods modelling and simulation design methods and applications The papers in the Proceedings represent the state of the art in the rapidly changing technology of computer aided design in control systems They clearly show how that technology is absorbing the most recent developments in computer science and adapting them to its requirements The reader will find that the emphasis in the technology is shifting towards open environments with object oriented databases and modern graphical user interfaces supporting a whole range of tools for modelling analysis and design      *Computer Algebra Systems* Michael J. Wester, 1999-07-16 This thorough overview of the major computer algebra symbolic mathematical systems compares and contrasts their strengths and weaknesses and gives tutorial information for using these systems in various ways Compares different packages quantitatively using standard test suites Ideal for assessing the most appropriate package for a particular user or application Examines the performance and future developments from a user's and developer's viewpoint Internationally recognized specialists overview both the general and special purpose systems and discuss issues such as denesting nested roots complex number calculations efficiently computing special polynomials solving single equations and systems of polynomial equations computing limits multiple integration solving ordinary differential and nonlinear evolution equations code generation evaluation and computer algebra in education The historical origins computer algebra resources and equivalents for many common operations in seven major packages are also covered By providing such a comprehensive survey the experienced user is able to make an informed decision on which system's he or she might like to use It also allows a user new to computer algebra to form an idea of where to begin Since each system looked at in this book uses a different language many examples are included to aid the user in adapting to these language differences These examples can be used as a guide to using the various systems once one understands the basic principles of one CAS The book also includes contributions which look at the broad issues of the needs of various users and future developments both from the user's and the developer's viewpoint The author is a leading figure in the development and analysis of mathematical software and is well known through the Wester test suite of problems which provide a benchmark for measuring the performance of mathematical software systems The book will help develop our range of titles for applied mathematicians The book will provide a unique fully up to date and independent assessment of particular systems and will be of interest to users and purchasers of CAS's

**Code Generation**

**in Simulink** J. Grant, 2018-03-08 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 cccelerate MATLAB algorithms in certain applications and speed up fixed point MATLAB code and Generate hardware description language HDL from MATLAB code. To convert MATLAB code to efficient C C code the code generator introduces optimizations that intentionally cause the generated code to behave differently and sometimes produce different results than the original source code. In the MATLAB language variables can change their properties dynamically at run time so you can use the same variable to hold a value of any class size or complexity. However statically typed languages like C must be able to determine variable properties at compile time. Therefore for C C code generation you must explicitly define the class size and complexity of variables in MATLAB source code before using them. For C C code generation you should explicitly and unambiguously define the class size and complexity of variables before using them in operations or returning them as outputs. Define variables by assignment but note that the assignment copies not only the value but also the size class and complexity represented by that value to the new variable. When generating C C code from MATLAB you cannot grow a variable by writing into an element beyond its current size. Such indexing operations produce run time errors. You must define the matrix first before assigning values to its elements. During C C code generation the code generator checks for statements that attempt to access uninitialized memory. If it detects execution paths where a variable is used but is potentially not defined it generates a compile time error. To prevent these errors define variables by assignment before using them in operations or returning them as function outputs. Note however that variable assignments not only copy the properties of the assigned data to the new variable but also initialize the new variable to the assigned value. This forced initialization sometimes results in redundant copies in C C code. You can reuse reassign an input output or local variable with different class size or complexity if the code generator can unambiguously determine the properties of each occurrence of this variable during C C code generation. If so MATLAB creates separate uniquely named local variables in the generated code. You can view these renamed variables in the code generation report. You cannot reuse reassign variables if it is not possible to determine the class size and complexity of an occurrence of a variable unambiguously during code generation. In this case variables cannot be renamed and a compilation error occurs.

**Aerospace Engineering** ,1992      **Automotive Engineering** ,1992-07

Foundations of Fuzzy Control Jan Jantzen, 2007-04-02 Fuzzy logic is key to the efficient working of many consumer

industrial and financial applications Providing a brief history of the subject as well as analysing the system architecture of a fuzzy controller this book gives a full and clearly set out introduction to the topic As an essential guide to this subject for many engineering disciplines Foundations of Fuzzy Control successfully exploits established results in linear and non linear control theory It presents a full coverage of fuzzy control from basic mathematics to feedback control all in a tutorial style In particular this book Systematically analyses several fuzzy PID Proportional Integral Derivative control systems and state space control and also self learning control mechanisms Sets out practical worked through problems examples and case studies to illustrate each type of control system Provides an accompanying Web site that contains downloadable Matlab programs This book is an invaluable resource for a broad spectrum of researchers practitioners and students in engineering In particular it is especially relevant for those in mechanical and electrical engineering as well as those in artificial intelligence machine learning bio informatics and operational research It is also a useful reference for practising engineers working on the development of fuzzy control applications and system architectures

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