

Evaluating the Performance of Solvers for Integer-Linear Programming

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Abstract

Optimizing embedded systems often boils down to solving complex combinatorial optimization problems. Integer-Linear Programming (ILP) turned out to be a powerful tool to solve these problems, as beyond traditional constraints, Boolean variables may be used to model complex logical expressions and conditionals. One of the key technical aspects is to be able to efficiently express these relations within the ILP. This paper presents formalized solutions for these issues, as well as an assessment of common ILP solvers. Additionally, the performance impact is illustrated using a compiler based cache aging optimization.

2012 ACM Subject Classification Mathematics of computing → Solvers; Mathematics of computing → Integer programming; Computer systems organization → Embedded and cyber-physical systems

Keywords and phrases Integer-Linear Programming, ILP, Solvers, Evaluation

Category Technical Report

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1 Introduction

Over the last decades, the complexity of embedded systems has grown drastically. If the initial design of such a system does not meet all of its requirements, it must be optimized specifically towards this criteria.

Traditionally, this task is performed manually by the system designer. E.g., certain functions are manually mapped to a faster but small memory or code snippets are reformulated. However, this is a tedious task as every change may lead to unforeseen side effects which, again, might even degrade the system's adherence to the design requirements.

Compilers have proven to be powerful tools in order to automatically optimize a system with respect to hard design constraints. E.g., Falk et al. provide a compiler framework specifically tailored towards optimizing programs' Worst-Case timing behavior [5]. Recent



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Oehlert Solutions Manual

Rose Arny

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Labor Relations Reference Manual, 1959 Security Protocols Bruce Christianson, 2006-09-13 This book constitutes the thoroughly refereed post proceedings of the 12th International Workshop on Security Protocols April 2004 The book presents 21 revised full papers presented together with edited transcriptions of some of the discussions following the presentations Among the topics addressed are authentication anonymity verification of cryptographic protocols mobile ad hoc network security denial of service SPKI access control timing attacks API security biometrics for security and others Applied Linear Regression Sanford Weisberg, 2013-06-07 Master linear regression techniques with a new edition of a classic text Reviews of the Second Edition I found it enjoyable reading and so full of interesting material that even the well informed reader will probably find something new a necessity for all of those who do linear regression *Technometrics* February 1987 Overall I feel that the book is a valuable addition to the now considerable list of texts on applied linear regression It should be a strong contender as the leading text for a first serious course in regression analysis *American Scientist* May June 1987 *Applied Linear Regression* Third Edition has been thoroughly updated to help students master the theory and applications of linear regression modeling Focusing on model building assessing fit and reliability and drawing conclusions the text demonstrates how to develop estimation confidence and testing procedures primarily through the use of least squares regression To facilitate quick learning the Third Edition stresses the use of graphical methods in an effort to find appropriate models and to better understand them In that spirit most analyses and homework problems use graphs for the discovery of structure as well as for the summarization of results The Third Edition incorporates new material reflecting the latest advances including Use of smoothers to summarize a scatterplot Box Cox and graphical methods for selecting transformations Use of the delta method for inference about complex combinations of parameters Computationally intensive methods and simulation including the bootstrap method Expanded chapters on nonlinear and logistic regression Completely revised chapters on multiple regression diagnostics and generalizations of regression Readers will also find helpful pedagogical tools and learning aids including More than 100 exercises most based on interesting real world data Web primers demonstrating how to use standard statistical packages including R S Plus SPSS SAS and JMP to work all the examples and exercises in the text A free online library for R and S Plus that makes the methods discussed in the book easy to use With its focus on graphical methods and analysis coupled with many practical examples and exercises this is an excellent textbook for upper level undergraduates and graduate students who will quickly learn how to use linear regression analysis techniques to solve and gain insight into real life problems **Manual of Simulation in Healthcare** Richard H. Riley, 2015-10-29 Practising fundamental patient care skills and techniques is essential to the development of trainees wider competencies in all medical specialties After the success of simulation learning techniques used in other industries such as aviation this approach has been adopted into medical education This book assists novice and experienced teachers in each of

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