

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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