Towards Transformational Specification of Relaxed Memory Models

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Introduction

Constructing models using program transformations: Goal

Idea

Simplicity

Possible Advantages - Theoretical

Compiler Correctness

Robustness Conditions

Compositional Correctness

Elements to define models

Constructing base model

Establishing Equivalence

Challenges: Part 1

Challenges: Part 2

Challenges: Part 3

Challenges: Part 4

Misc

Thank you

Questions?