Program Transformation and Analysis Final project

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1 Abstract

The Pendulum Instruction Set Architecture (PISA) was first introduced in 1995 by Carlin James Vieri and is a reversible assembly language. The assembly language has later been improved and several high-level languages has been build upon it. One of those languages is the extension to the reversible object-oriented programming language (ROOPL) ROOPL++ presented in 2018. One of the issues with ROOPL++ was the amount of produced target code. In this paper we compile source code for the data structure of a binary tree, analyse the possibility of redundant target code and points out where an optimization could be done.