Lab 4: Bounds Check Analysis

Bert De Saffel, Xandro Vermeulen May 19, 2019

Contents

1	Introduction	1
2	Analysis	1

1 Introduction

This report describes the performance of three different IR representations of a single C program, bubble_sort.c. The first IR representation is the standard representation without the function pass. The second IR representation creates a branch at each getelementptr instruction. The third representation is an optimalisation of the second, NOG UITLEGGEN WAT GEOPTIMALISEERD IS.

2 Analysis

To perform the analysis, the program bubble_sort.c is executed 30 times for each representation. Afterwards, average statistics can be calculated for each representation.