

ECE 566 Project 3 Report

By: Ibrahim Moghul

- Looking at the adpcm benchmark, the default number of instructions is 200. With code replication it is 420, with control flow checking it is 346, and with both it is 566.
- Code replication seems to have the biggest impact, more than doubling the static instruction count. This is due to the fact that every eligible instruction gets 4 extra instructions to ensure the produced value is correct. Control flow checking also adds overhead, but it is mainly used at the beginning and end of every basic block, so it mainly depends on the number of cfg edges.
- N/A