CS335 Milestone 3

Aakash Om Trivedi (200003) Krishan Kumar (200521) Ujjwal Kumar (201059)

IIT Kanpur

1 Tools

We have used flex for the lexer, bison for the parser, and the implementation language is c++ and using all this we have genearated symbol table and 3AC code for given input.

Eradicated mistakes in Milestone 2 submitted code, and most importantly, Method Invocation 3AC is now properly working, and Stack Manipulation is added as mentioned for method declaration,invocation and local variable.

2 Basics

A runtime environment is a set of data structures maintained at run time to implement high-level program structures. Some examples of data structures are stack, heap, and virtual function tables.

Control Stack: A run-time stack usually manages procedure calls and returns called the control stack. We have implemented this.

3 Compliation commands

chmod +x ASTGenerator
./ASTGenerator −input=<input_file> −output=<output_file>