

CS 4300, Fall 2011

Compiler Demo and Write-up

Overview of Demo

I expect a clear and interesting presentation of your compiler. During the demonstration of your compiler you should describe the key classes, data structures, algorithms, and the limitations of your compiler. Test cases should be chosen carefully to illustrate any particular strengths or weaknesses of your compiler.

I have provided a link on the schedule of the class web page “How to demo software” that gives real-world advice. Please read it and consider any advice that applies to your situation (much of it won’t).

You should practice your demo (lots of times!), preferably with an audience, to make sure your timing is correct, your presentation flows and someone else finds it interesting,

You are responsible for making sure you have a working version of your compiler and test cases in your team account in the CS domain that can be transferred (sftp) to a testing account prior to the start time of your presentation.

Your presentation should be at least 15 minutes long and no longer than 25 minutes to allow time to try your compiler on my test cases.

Overview of Write-Up

I expect several typed pages of explanation of how your compiler works. You should describe the key classes, data structures, algorithms, and the limitations of your compiler. There should be an honest discussion of the strengths and weaknesses of your compiler, an analysis of your test cases, and a discussion that includes future work.

Suggested Format

Title, Author, Course, Date

List of team members

Introduction

This should be a paragraph or two: summarizing and describing at a high level what you have done, and what follows in your paper.

Overview of the Compiler

Give an overall description of your compiler. Explain and justify representational choices you made. A table, showing your classes and how they interact, would be useful here.

Strengths of the Compiler

Describes what your compiler can do.

Limitations of the Compiler

Describes what your compiler cannot do.

Analysis of Test Cases

This section will include one or more illustrative test cases and analysis of the test cases. This is a good place to explain some of the strengths and weaknesses of your program.

Discussion

This section should be a broader discussion of your compiler.

Conclusion and Future Work

This will summarize what you have done. Ideas for improvements or future work could be included here.