CS 6410: Compilers

Fall 2023

Part 6 – Project Report
Acknowledgment: Project assignment modified from an assignment developed by Hal Perkins, faculty member of the University of Washington, Allen School of Computer Science and Engineering

Posted on Wednesday, October 4, 2023
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Please submit your project by 11:59pm on Wednesday, December 13, 2023. You should submit your project report through the Khoury GitHub. See the end of this writeup for details.

1 Assignment Overview

Your last assignment in this project is writing a project report. Your report should describe the project that you turned in Part 5. However, there is always that "last" bug. If you need to make minor changes to the code, and discuss them in your report, we will take small bug fixes into account in evaluating the final state of the project - even if these fixes have major effects. But large changes or additions to the project after the deadline, while may be useful for your learning, cannot fairly be evaluated as if they were turned by the deadline. The overall project evaluation will be based on the code you turned in on time unless some small exceptions make sense to evaluate it fairly.

2 Report

Please write a brief (up to five pages) summary of your completed project, describing:

- What language features work (arithmetic expressions, if/while, object creation, dynamic dispatch, arrays, etc.).
- What language features were not implemented, or do not work, or don't quite work.
- A summary of the test programs you have tried, and the results. Note the word "summary" - a lengthy dump of your test results is not helpful. We want to get an idea of how extensively you tested your code, and how you organized the testing.
- Any extra features or language extensions supported by your compiler. For example, if you implemented:
  - additional Java language constructs, not part of basic MiniJava,
  - extra error or semantics checking,
  - assembly code formatting, comments, and other goodies,
  - clever code generation or register allocation, or
  - optimizations.
  you want to mention that if your report.
- Brief conclusions: what was good, what could have been better, what you would have done differently, or would have liked to have seen changed about the project.

3 What to Submit, and How

You should turn in your report using the Khoury GitHub by 11:59pm on Wednesday, December 13. If you worked in a team, the whole team should turn in a single report. Reports should be submitted as pdf files.