assigned: Mar. 5, 2020

presentation dates: Apr. 09 - 16, 2020

Homework 4

12 points

You are to select, study, and "present" an LLVM pass to the class. You are free to select any pass that you like, except for a trivial pass like "Hello World". For your chosen pass you are expected to:

- Explain what the pass does both conceptually and through examples;
- Relate the pass to the concepts, data structures and algorithms studies in the class;
- Explain any dependencies of this pass on other parts of LLVM;
- Illustrate the pass in action in processing C or TIP programs; and
- If you choose an analysis pass, compare it to the closest corresponding TIP analysis.

The first thing you should do on this assignment is to sign up for a 25 minute presentation slot on Apr. 9, Apr. 14, or Apr. 16. There are 3 slots per class and they will be assigned on a first-come first-served basis. You can sign up by sending the instructor an email with the team members and the selected pass. When presenters sign-up I will update the course web-page.

In preparing and presenting your 25 minute introduction to and explanation of your selected pass, you should cover all of the areas discussed above and provide a "tutorial" explanation of the pass to educate the class.

You will be graded on the organization of your presentation, the quality of your presentation materials, the clarity of your explanations, the extent to which you use your 25 minutes appropriately (i.e., keeping to the time limit, but also using the time appropriately), and your ability to answer questions about your presentation.

There are many good resources available online about how to prepare and give a technical presentation. This site is a nice example: https://homes.cs.washington.edu/~mernst/advice/giving-talk.html

You may use any slide preparation system you would like, but you will submit a PDF copy of the slides you use in making your presentation.

Part 1 (4 points)

You will submit a draft of your presentation materials 1 week before your presentation slot so that you can get feedback from the instructor. A complete set of materials will receive full credit, but a sketch or limited outline will receive a reduced score.

This draft can be emailed to the instructor.

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Part 2 (4 points)

On or before April 15 you will submit the final set of materials you used for the presentation. These will be graded according to the above rubric in terms of organization, quality, clarity, etc.

You will submit a PDF copy of your final presentation through collab.

Part 3 (4 points)

The presentation will be evaluated as well in terms of how clearly you present the material, how you address questions, and how you engage the audience.