

14 points

Homework 3

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.

Part 1 (7 points)

Grading rubric for oral presentation:

- (1 point) Both team members participate
- (1 point) Used 15 minutes appropriately (neither too long nor too short)
- (1 point) Clarity of oral presentation
- (1 point) Clarity of slide organization
- (1 point) Answered questions effectively
- (1 point) Illustrate the pass with an example
- (1 point) Related pass to concepts in class

Part 2 (7 points)

Grading rubric for written presentation:

- (2 points) Clear conceptual presentation of pass
- (1 point) Illustrate the pass with an example
- (2 points) Related pass to algorithms, concepts, data structures in class
- (1 point) Cited related work
- (1 point) Grammatically correct and well-written