

Compiler Design : CS 6241 A
Project: Phase II, Due November 4 Total points : 100

Using the given intermediate form and CFG implement the following:

- Invariant detection. Also perform invariant removal using the algorithm given in the dragon book. Remember to do the removal from innermost loop to outermost.
- Convert IR to minimal SSA form and report the number of phi functions introduced. Also, report the number of values in the program before and after SSA conversion.
- Convert IR into a web based value separation (du/ud chain based value separation given in 1st homework). Report the number of program values before and after.

In later phase, we will devise a SSA based register allocator (Briggs' style simplification and Appel style coalescing). Keep this in mind when you design the SSA phases.