

Compiler Design : CS 6241 A
Project: Phase I, Due October 1 Total points : 100

Using the given intermediate form and CFG implement the following:

- Available Expressions
- Copy equivalence
- Invariant detection

Using the above, perform the following optimizations:

- Common subexpression elimination
- Copy propagation

On a array based code, show the benefits of both. Also, show if you perform CSE and copy propagation in an interleaved manner what is the benefit (Kildall essentially does this in one pass). You will report the numbers for both code size and cycles.