









SSA Form for Optimizations

- SSA form can improve and/or speed up many analyses and optimizations
 - (Conditional) Constant propagation
 - Dead code elimination
 - Value numbering
 - PRE
 - Loop Invariant Code Motion
 - Strength Reduction

Swap Problem: Solution

- Fix requires compiler to detect and break dependency from output of one φ-function to input of another φ-function.
- May require temporary if cyclic dependency exists.