

Code optimization:

1. Local common sub expression elimination





2. Global Common subexpressions elimination







3. Copy Propagation



Assignment of same expression repeats in multiple blocks to multiple variables.

In block 5



Simply remove assignment to x.

4. Dead code elimination



Example 1:



Example 2:

Block 5 is



If x is not used to other following blocks, it could be minimized as



5. Loop Optimization



5.1 Code Motion



5.2