

1 **def** minetasks(*Prog*, *CostModel*):

2   *CFG* = ControlFlowGraph(*Prog*)

3   *PDG* = ProgramDependenceGraph(*Prog*)

4   *Ranges* = symbolicRangeAnalysis(*CFG*)

5   *Vanes* = findVanes(*PDG*)

6   *Costs* = profitabilityAnalysis(*Tasks*, *Ranges*, *CostModel*)

7   *Tasks* = []

8   **for** *v* **in** *Vanes*:

9     *region* = *v.expand*(*Costs*)

10    *Tasks.append*(*region*)

11   *Privs* = privatizationAnalysis(*Tasks*, *PDG*)

12   *Prog.annotate*(*Tasks*, *Costs*, *Ranges*, *Privs*)

3.1

3.2

3.3

3.4

3.5

3.6 & 3.7