

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