Exam 2 logistics

• Exam is Tuesday, November 3rd
  • In class
  • Open book, open notes
• Extra office hours
  • Monday, November 2nd
  • 1:30-3:30
Topics

• Semantic actions
• Abstract syntax trees, IRs
• Generating code for program constructs
• Functions
  • Calling conventions, etc.
• Code generation
  • Peephole optimization
  • Common subexpression elimination
Topics

• Register allocation
  • Top down, bottom up, register tracking, graph coloring
• Instruction scheduling
  • Representing resource and dependence constraints
  • List scheduling
• Loop optimizations
  • Loop invariant code motion
  • Strength reduction & linear test replacement
  • Loop unrolling
  • High level loop optimization