

After his lecture you should be able to answer the following questions:

1. What is benchmarking and how is useful?
2. How can we optimize code?

Multiple choice questions (answers on the last page)

1. Which of the following is NOT a branch prediction algorithm?
A. Predict by Opcode B. Predict by flags
C. Taken/Not Taken D. Predict always taken.
2. If a branch prediction algorithm uses previous history, then it is called
A. Predict by Opcode B. Predict by flags
C. Taken/Not Taken D. Predict always taken.
3. _____ splits large loops into smaller ones to reduce data dependences and resource conflicts
A. Loop Unrolling B. Loop Fusion
C. Loop Fission D. Loop Removal
4. _____ combines loops that use the same data elements.
A. Loop Unrolling B. Loop Fusion
C. Loop Fission D. Loop Removal
5. Code Optimization pay the biggest dividends on
A. Initial cases B. recursion cases
C. edge cases D. common cases

1. b, 2 c, 3 c, 4 b, 5 d