CS286-Computer Organization & Architecture
Possible Quiz Questions (Quiz #7 – PART II) on November 3rd, 2026

The following is a list of possible questions for our quiz on November 3rd. Some of the questions will not be asked in the quiz. All the questions that will appear in the quiz will appear exactly as shown below (however, numeric parameters may be changed). The quiz is closed textbook, closed notes and closed neighbors. Note that the questions, which did not appear in this quiz, still may appear in the exams. You will find a solution for these questions during lectures.

#24: What are "static code optimizations"?

#25: What are "dynamic code optimizations"?

#26: Which pipeline hazards is "delayed branches" effective for?

#27: What are the major advantages in "dynamic code optimizations"?

#28: What are the major disadvantages in "dynamic code optimizations"?

#29: How does "forwarding" work? Is the code optimization considered "a static code optimization" or "a dynamic code optimization" (attach your brief justification for the choice you are making for this question)?

#30: What are the major disadvantages (mention at least two) of forwarding?

#31: What is the major advantage of forwarding?

#32: How does "instruction scheduling (code optimizations) by a compiler" is performed?

#33: What is the major advantage of "instruction scheduling (code optimizations) by a compiler"?

#34: What is the major disadvantage of "instruction scheduling (code optimizations) by a compiler"?

#35: How does "delayed branch" works? Is the code optimization considered "a static code optimization" or "a dynamic code optimization" (attach your brief justification for the choice you are making for this question)?

#36: What is the major advantage of "delayed branch"?

#37: What is the major disadvantage of "delayed branch"?