CS286–Computer Organization & Architecture
Homework Questions (Quiz #9)
Due: 11:59:59 P.M., April 17, 2020

The following is a list of possible questions for our Homework #9. 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.

#1: What are the four hardware architecture for “parallel computers”?

#2: What are “tightly coupled systems”?

#3: What are “loosely coupled systems”?

#4: What are the two different types of tightly-coupled multi-processor system?

#5: How are “functionally-specialized multi-processor systems” different from “tightly-coupled multi-processor systems” (i.e., “what is the difference”)?

#6: Mention three different examples for “functionally-specialized multi-processor systems”.

#7: Sketch the internal hardware structure for “blade servers”.

#8: What are “distributed systems”?

#9: Which of the four parallel computer architecture do typical “super-computers” use?

#10: What are three different types of tightly-coupled multi-processor systems?

#11: What are “fine-grained tightly-coupled multi-processor systems”? 

CS 286 – Computer Organization & Architecture, Homework #9 Topic List