CSCI 2321 (Computer Design), Spring 2021
Reading Quiz 8

Credit: 10 points.

1   Reading

Be sure you have read, or at least skimmed, sections 4.1 through 4.3 of the textbook.

2   Instructions

Answer the questions below using *only* the course textbook (i.e., no Web searches). Please work independently rather than in groups, and include the Honor Code pledge in what you turn in, either the full pledge or just the word "pledged". (Please put this in the same document as your answers, so I don't overlook it.)

You may write out your answers by hand and scan them, or you may use a word processor or other program, but please submit a PDF or plain text via e-mail to my TMail address. (No links to shared files on Google Drive please.) Please use a subject line that mentions the course and the assignment (e.g., "csci 2321 quiz 8" or "computer design quiz 8").

3   Questions

1. (2.5 points) Of the subset of MIPS instructions to be discussed in Chapter 4, which ones use the ALU?

2. (2.5 points) The textbook claims that any state element must have at least two inputs. Why two?

3. (2.5 points) In Figure 4.7, some inputs to blocks (eg., the three register numbers) are shown with a number and a diagonal slash least two inputs. What does that mean?

4. (2.5 points) What is a "delayed branch"?