CSCI 2500 — Computer Organization
Homework 02 (document version 1.0) — Due September 22, 2022
It's All About Performance!

- This homework is due by the Midnight EDT on the above date via a Submitty gradeable.

- This homework is to be completed **individually**. Do not share your code with anyone else.

- Homework assignments are available approximately seven calendar days before they are due. Plan to start each homework early. You can ask questions during office hours, in the Submitty forum, and during your lab session.

In this second homework assignment, you will work on textbook problems.

1 Overview

- Answer the questions from section "3.15 Exercises" of our digital zyBook.

- **Show all work!**

- You MUST type up your answers. Handwritten solutions will not be accepted or graded, even if they are scanned into a PDF file.

- We recommend using LaTeX (https://www.latex-project.org/). If you have never used LaTeX, you might want to follow some tutorial, like this one: https://www.latex-tutorial.com/tutorials/. There is a convenient online LaTeX editor called Overleaf (https://www.overleaf.com/) that has a free plan for students.

- Submit your answers for this homework on Submitty as a single PDF file named `hw2.pdf`.

- This homework will be manually graded by our TAs.

2 Problems:

1. **Textbook Problem 3.15.5 (all sub-parts)**

2. **Textbook Problem 3.15.7 (all sub-parts)**

3. **Textbook Problem 3.15.8 (all sub-parts)**

4. **Textbook Problem 3.15.10 (all sub-parts)**

5. **Textbook Problem 3.15.12 (all sub-parts)**

6. **Textbook Problem 3.15.15 (all sub-parts)**

3 Submission Instructions

For this assignment, you will submit a single PDF file named `hw2.pdf` with your answers to the textbook problems to the Submitty gradeable.