

# CPSC 3125, Operating Systems Homework 06

## Chapter 8, *Operating Systems, Three Easy Pieces*

### Readings

Read chapter 8 in the *Operating Systems, Three Easy Pieces* book.

### Discussion Questions

Answer the discussion questions in writing.

1. What is the primary issue the MLFQ scheduling algorithm was designed to consider? In other words, what is the purpose of MLFQ?
2. In your own words, explain Rules 1 and 2. A simple, brief explanation will suffice.
3. What are the two branches of Rule 4? What is the difference between them, and how are they handled?
4. Since we don't know the length of a new job, we have to make an assumption. What is the assumption MLFQ makes about new jobs?
5. What does the book mean by *starvation*?
6. What is the purpose of the *priority boost*?
7. What is a *voodoo constant*?
8. What is meant when we create an algorithm or procedure that should be *parameterized*?
9. What does `nice()` do? What are the argument(s) of the function? What is the return value of the function?
10. Review the five "rules" of MLFQ. You may see them again on an examination.