

L3: File I/O Programming

CS 283 Systems Programming

Grading: 50 Points

Description

In this assignment, you will write a program to the following specifications, using C file system calls.

- Given two directories `./a` and `./b`, passed as parameters to your program, you are to synchronize them, as follows:
 - If a file in `a` does not exist in `b`, you should replicate it in `b`.
 - If a file in `b` does not exist in `a`, it should be deleted from `b`.
 - If a file exists in both `a` and `b`, the file with the most recent modified date / time should be copied from one directory to the other.
- Print a log of your program's activities to `stdout` or `stderr`.

35 Points: Program correctness

15 Points: Program documentation and code style (5), readme (5), makefile or build script (5).

Please use `DIR1=a DIR2=b make sync` as a build target.