

CS 45: Operating Systems

Lab 6: File Systems

DUE December 12th at 11:59 PM

Checkpoint 1 DUE November 25st at 11:59 PM

Checkpoint 2 DUE December 5th at 11:59 PM

In this lab we will be following building a user-space filesystem following [Professor Webb's lab here](#).

A couple of notes:

1. Before you start writing any code, familiarize yourself with the code a bit. Specifically, make sure you know how the `swat_truncate` function works.
2. You might add a helper logging function to `swatfs_inode.h/c` that prints out most of the inode information to `stderr`; I found that handy.
3. The `.size` field in the `inode` has different meanings depending on the type of file (which is determined with `.mode`). In the case of a regular file it is the number of bytes, pretty straight forward. However in the case of a directory, `.size` is the amount of metadata stored about that directory's contents. So if a directory has `N` things in it, the `.size` would be `N * sizeof(struct dirent)`.