

CSCI 350—Operating Systems

Assignment 3: due Friday, October 14, 2016

1. Modify the *tlpi-dist/files/t_stat.c* program in the following two ways:
 - First, modify the *displayStatInfo* function so that it displays both the *uid* and *user name* and both the *gid* and *group name*. You should probably split this into two lines of output.
 - Second, modify the *main* function so that the program can provide info for a list of files. This change means that *argc* may be greater than two (or one if *argv[1]* is "-l"), and that the program should call *displayStatInfo* for each of the remaining arguments.
2. Modify the *tlpi-dist/dirs_links/list_files.c* program so that it has a *-a* command line option. If the *-a* option is not present, the program does not list any hidden files (files whose names begin with the character '.'); if the *-a* option is present, it lists all files, including the two standard files "." and "..". This assignment requires two changes. In the *main* function you need to change the argument checking so it allows for the new option; use a static global variable or a second parameter for the *listFiles* function to communicate whether the option is chosen. (Flag it as a usage error if any option is given other than the *-a* option.) In the *listFiles* function, you'll need to change the part that skips the "." and ".." files so that it either lists all files or all but the dot files.