OS 2/20

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C/GCP Stuff

- You can type the command `cd /proc` which is a folder that should automatically be created
  - If you type the command `ls | head`, you'll see a bunch of PIDs (process IDs)
- `sudo -i` will make you the root user, and keep in mind that with great power comes great responsibility so don't fuck up
- You can `cd` into a PID

File Descriptors

Standard File Descriptors

- Standard input (0), standard output (1), standard error (2)
- We can take advantage of these standard file descriptors in our code
- He has slides on the website, the second slide has instructions to download some files that we've spent most of the class looking at
- The file we've been going over is in /fileio and is called copy.c

Permissions

- When you type ls -l in a directory, you get something that looks like `-rwxrwxr-x` in front of every file/directory
  - This stands for read, write, execute and the groups of rwx states the permissions for different users
    - `[rwx(user) rwx(group) rwx(other)]`
    - Setting each variable to a 1 means they have that permission, a 0 means they do not
    - `rwxr-xrw-` = 111101110
    - You can break the binary number into sets of 3 and convert to decimal, the decimal number is your permission string
      - `chown <decimal number>` will change the file permissions
    - You can change the group, owner, etc by doing chgrp or chown