

COP4600 - Project 1, Part 2

Estimated Completion Time: 5 minutes

Assignment Description: Congratulations! You have finished adding your system call(s) to the kernel and have created a library for other developers to easily run your system call. In this quick assignment, you will be combining your work into a single artifact by following the step by step tutorial. No further coding is required.

Prerequisite: You have completed Project 1. This means you have created and submitted a patch file (called p1.diff) and a zipped archive of your library (called process_log.tar.gz) which contains all the function definitions required. You have already submitted these files to Canvas.

Very Important: You must run the following steps on the final version of your Reptilian virtual machine with your patch file applied and your system calls installed (i.e. after applying your patch, making the kernel, and rebooting). This assignment must not be completed on a clean patch!

Assignment Instructions

1. Using the final version of your Reptilian virtual machine, locate your patch file (p1.diff) and your zipped archive (process_log.tar.gz) that you submitted to Canvas previously. If you can't find them, simply download the files from Canvas and use `sftp` to place them into the virtual machine.
 - Important: your patch file must be named p1.diff exactly and your library archive must be named process_log.tar.gz exactly. You may rename these files to the correct names if necessary on the Reptilian virtual machine.

2. In the home directory (i.e. /home/reptilian), run the following command

```
git clone https://github.com/utt-zachery/OS-P1.git
```

3. Enter the newly created directory (OS-P1). There are two important subdirectories: **PATCH_HERE** and **TAR_GZ_HERE**. Place your patch file (called p1.diff) into the folder PATCH_HERE and place your library archive (called process_log.tar.gz) into the folder TAR_GZ_HERE.
 - Your directory structure should look like this:

```
reptilian@localhost:~/OS-P1$ ls
PATCH_HERE  TAR_GZ_HERE  include      src          build.sh     runTest.out
```

```
reptilian@localhost:~/OS-P1/PATCH_HERE $ ls
p1.diff
```

```
reptilian@localhost:~/OS-P1/TAR_GZ_HERE$ ls
process_log.tar.gz
```

4. Run the shell script file with sudo. I.e. run the following command

```
sudo bash build.sh
```

Type the password “reptilian” if necessary.

5. Allow the script to run until the following file is created:
 - a. submission.bin
6. You will submit this file (submission.bin) and your patch file (p1.diff) to Canvas under the Assignment, Project 1 Part 2. **Any modification to either of these files will invalidate your artifacts!** Use sftp to copy these files *exactly* to the host machine and submit directly to canvas. Your p1.diff file should match the patch file previously submitted to Canvas.