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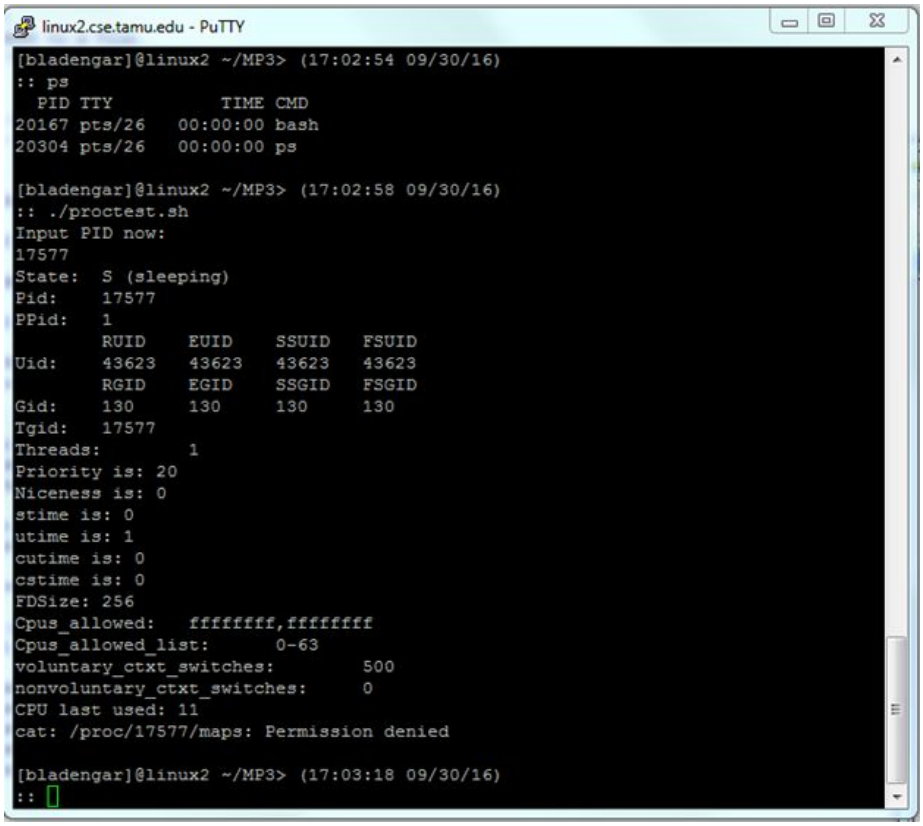
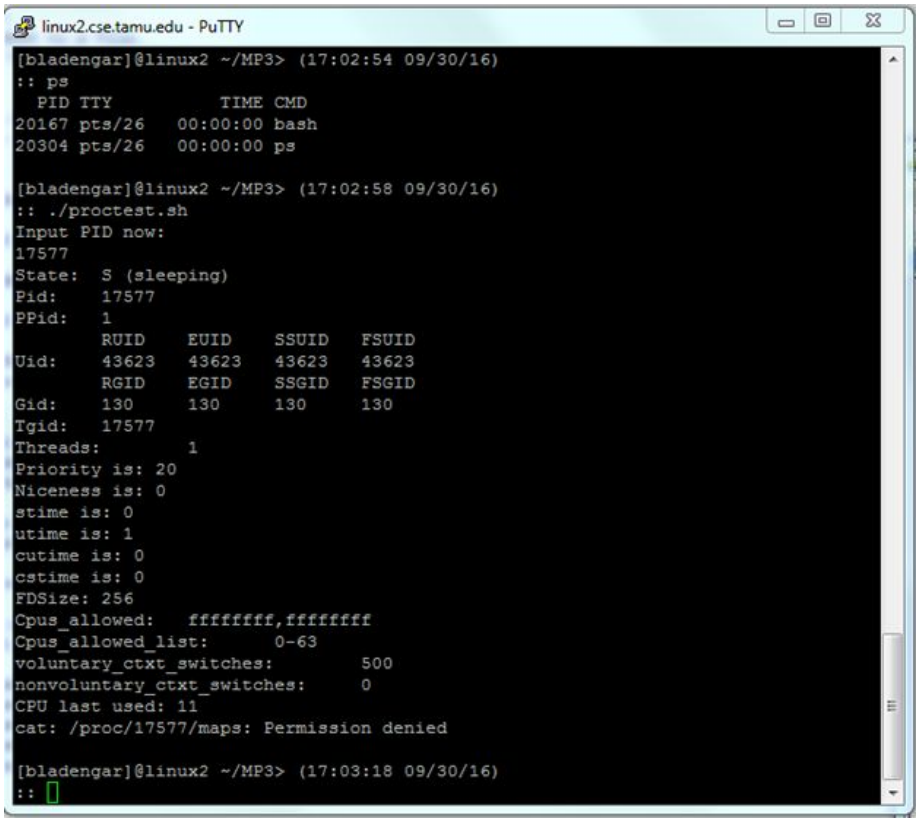
Machine Problem 3

The objective of this Machine problem was to create a bash file that could take in an PID from the user and display various properties of the process. Through this, we learned basic shell commands and the different properties of a process and their meanings.

For a process that was not mine, we got the following for the following information:



For a process that was mine, we got the following information:



The map information was not printed in the terminal, but can be found in the memMaps.txt file included.

In our programs that we used to test this, the real and effective IDs were the same. This will be the case for most of the processes, but there is a difference between them. The real user ID is basically the person who owns the process. The effective user ID is the person who's currently using it. The two can be different for example, the root(or admin) may need to take control of the process to do certain things. Other users can also take control of the process, but you need to give them access.

The proc "folder" is mostly read-only to prevent malicious/ignorant attempts to modify the running processes. There are however some select files that can be written to by the kernel to change some parameters.