Natalie Cluck, Megan Fischer

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Machine Problem 4 Report

The first command that we set up was ‘cd’. We used the chdir function to make sure that the directory is in the correct place at all times. The next command was exit, which we just set to return exit(0). ‘Pwd’ was the next command. It also uses the chdir function to make sure the directory is correct, and the function getcwd. Getcwd allows us to print the path correctly.

The following commands all used a fork because we needed to keep the processes running and the commands required calling exec() which would kill the program. ‘Df’, ‘ls’ ‘-la’, and ‘cat’ all use forks to execute the correct output. We used several if statements, and pipes to properly execute the commands ls | cat and ls –la | grep temp.tar.

For ‘echo’ and ‘cat’ we used a simple ofstream and ifstream to place the text in the correct place. We are still working on trying to implement the functions using pipes.