
CSCE 215 – Unix/Linux Fundamentals

Fall 2017 – Assignment 4

5 Points

Due: November 17, 2017 (5pm)

Overview

In this assignment, you will

- use make to modify a c++ program and
- gdb a debugging tool.

Part 1

From the course website (or the departmental dropbox) download the program source files for the project `myname`. You can also use GIT. [git clone URL]

Part 2: myname program (5 points)

1. Using your favorite text editor, modify the source code to print out your name instead of mine when the binary file is executed.
Hint: YOU ARE NOT "THOMAS THE TANK ENGINE"
2. **Modify** the makefile to include a rule that creates a backup of the source files, makefile, and readme in an archive directory in your home directory structure.

Submit a compressed, archived tar file

`[yourUserID].assignment4_1.tar.[Z,gz]`

with your modified source code.

3. Use the gdb debugger to step through the program. Check to ensure the Makefile is modified to allow for debugging. Submit a text file `[yourUserID].assignment4_2.txt` containing the gdb output for the following sequence of commands:

`gdb myname`

`start`

`step` [issue this command until you get the "exit (status=0)" message] `quit`

Submission

This time, there should be two files that you are uploading

`[yourUserID].assignment4_1.tar.[Z,gz]` and `[yourUserID].assignment4_2.txt`

- When you have finished, submit the files using the departmental dropbox.