Lab #6: The Boot Process

In this lab you are to study the boot process. Steps of this lab include creating and configuring a virtual machine, compiling the source code for the linux kernel, modifying the boot loader to include the new kernel, and adding a custom function to the kernel. Detailed instructions are provided in a separate document emailed to the class.

All students are to work in 2-person teams, as assigned in class and email. Grading is via demonstration of completing each of the above steps.

This lab is due by the due date given at the course website. Grading will be determined via demonstration. The lab TA will be available for demonstrations in the lab (Riggs 309) at the times posted at the course website. If you need to arrange an alternate demonstration time, work it out with the TA.

You DO NOT need to submit anything to canvas for this assignment.

Although the instructions are fairly explicit, you are STRONGLY encouraged to spend some time learning about the concepts covered in this lab. Those concepts include the kernel, boot loaders, virtual machines, and kernel functions. If there is any part of the lab that you can complete but feel you do not understand well, you are encouraged to study it in more depth.