System and Device Programming

Lab 05 Exercises – Building a Minimal Kernel

Exercise 1

Comment every line of the script pack.sh in the directory MK

Exercise 2

Follows the steps for creating a bootable hard disk file image in directory MK/gdt-idt and installing the kernel in src.

Use the tutorial in

http://www.jamesmolloy.co.uk/tutorial_html/

to understand the main and the functions that make this minimal kernel.

Produce a report which illustrates the most important data structures, functions, and instructions that are used to build this kernel. Use figures and tables to make your report easily readable.

Give also your suggested procedure to debug this kernel (i.e., where would you suggest to put breakpoints and why).