CIS722 Assignment 0 Fall, 2014

Not to be submitted

Procedure to Follow

1. Change the “your_name” part of “your_name.img” to your LastName_FirstName
2. Boot MINIX in VirtualBox
3. Set “your_name.img” to Floppy1
4. Set “boot.img” to Floppy0
5. Mount Floppy1 under /mnt
    - mount /dev/fd1 /mnt
6. Create directory /usr/src/your_name and copy /mnt/* to /usr/src/your_name
    - mkdir /usr/src/your_name
    - cp –r /mnt/* /usr/src/your_name
7. Change directory to /usr/src/your_name
    - cd /usr/src/your_name
8. Read and understand Makefile.proj0 and Makefile.proj0_simpler by comparing them with Makefile (the original Makefile)
9. Go to proj0/pm and edit main.c
    - If you can use vi, then issue “ln /usr/bin/elvis /usr/bin/vi”
    - Read and understand Makefile by comparing it with the original Makefile found in /usr/src/servers/pm
    - Compare the include statements in main.c with those in the original main.c found in /usr/src/servers/pm/
    - Find “Your Name’s first Minix Ver 3*\n” and replace “Your Name” with your name (such as “Masaaki Mizuno”).
10. Unmount /dev/fd1
    - umount /dev/fd0
    - This step should not be necessary, but because of some bugs (I guess), you cannot mount any floppy image to create a bootable floppy
11. Compile your MINIX and make a bootable disk
    - If you use Mkefile.proj0_simple (which I recommend),
        i. Go to the proj0/pm directory and issue “make”. This will create pm (executable module of pm)
        ii. Go back to /usr/src/your_name, and issue “make –f Makefile.proj0_simpler fdboot”. When you are asked to specify a floppy drive, select default (just <return>)
    - If you use Makefile.proj0, directory go to /usr/src/your_name and issue “make –f Makefile.proj0 fdboot”.

- Note : in order for make to work, you must have empty .depend file in the directory where you would create your executable module (in this case, in proj0/pm)

12. Shutdown the system which brings you to MINIX monitor. Then, issue “boot fd0” to boot your first MINIX from Floppy0 (“boot.img”)