

Git Commit ID:

commit: 076264ada9a307300be7a4581165f9c9deed5d1b

Submission Details:

Name: Smitha Venkatesh

Steps:

Install Ubuntu 16.04LTS on Hard disk.

Check if VMX is enabled

- 1)\$sudo apt-get update
- 2)\$sudo apt-get install cpu-checker
- 3)\$ kvm-ok
[/dev/kvm exists. KVM acceleration can be used]

Downloading Linux kernel code

- 1)\$git clone https://github.com/torvalds/linux.git
[This is cloning to local repository /linux]
- 2)Go to the local directory (/linux) cd linux
- 3)Type git log
commit 076264ada9a307300be7a4581165f9c9deed5d1b
Merge: 0f38071 41dcf19
Author: Linus Torvalds <torvalds@linux-foundation.org>
Date: Thu Oct 5 15:17:40 2017 -0700
- 4)\$sudo apt-get install libncurses5-dev
- 5)\$make menuconfig
- 6)\$sudo apt-get install libssl-dev
- 7)\$sudo make && sudo make modules && sudo make modules_install && sudo make install
- 8)\$uname -r
4.10.0-28-generic
- 9)Reboot
- 10)\$uname -r
4.14.0-rc3+
- 11)Added 2 files (cmpe283-1.c and Makefile) to directory linux/cmpe283.
- 12)\$git add cmpe283/Makefile cmpe283/cmpe283-1.c
- 13)\$git config --global user.email "smithav17@gmail.com"
- 14)\$git config --global user.name "Smitha"

- 15)\$git commit -a
- 16)Go to the the directory /linux/cmpe283
- 17)\$make clean
- 18)\$make all
- 19)\$sudo insmod cmpe283-1.ko
- 20)\$dmesg
- 21)Implement code to check th assignment functionalities.
- 22)\$git add Makefile cmpe283-1.c
- 23)\$git config --global user.email "smithav17@gmail.com"
- 24)\$git config --global user.name "Smitha"
- 25)\$git commit -a
- 26)\$git diff HEAD~2 > cmpe283-1.diff
[Since I had committed twice from the original linux kernel I gave 2]