

Lab 1: Initial Raspbian Setup

CSE 2100-001

Trang Hoang

Date Performed: September 7, 2017
Partners:

1 Objective

Complete the initial setup of the Raspberry Pi 3 board (flashing of SD card, Raspbian OS installation, environment setup, and basic usage of the Linux console).

1.1 Definitions

git is an underlying protocol that requires the clock to be synchronized with git servers or ntp

apt-get is a command to execute sudo permissions

ntp is a Linux component that allows you to update system clock with servers. It does all the management of the clock

sudo is a tool to run things as root

cmake is a build-file generator that allows us to automatically generate configurations such as creating, compiling, and sharing files.

kernel is a computer program that manages Input/Output requests and translate them into data processing

code repository is a file archive where a large amount of source code is kept publicly or privately

2 Question 1

What version of the Linux kernel is running on your Pi?

Hint: run the console command "uname -r"

4.9. 41 -v7+

3 Question 2

What release version of Debian Linux is your OS built on?

Hint: install the "lsb-release" package using apt-get and then run the console command "lsb_release -irc"

Release 9.1

4 Question 3

How many blocks of memory are available in your root file system?

Hint: run the console command "df"

22337416