Lab 1: Initial Raspbian Setup
CSE 2100-001

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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 a version control system that serves as the foundation for GitHub, Gitlab and other services. it includes a directory that continuously changes as codes are added throughout application.

apt-get : is a command line tool for handling apt software packages.

ntp : Also known as the Network Time Protocol,is used to synchronize between the computer clock times in a network of computers.

sudo : is a command that asks the user for your personal password and confirms your request to execute a command by checking a file that the system administrator configures.

cmake : is a build system that uses a single script count which is defined in a CMakeLists.txt file to generate build files.

kernel : is the central component of an operating which acts as an interface between the user applications and the hardware.

code repository : is a central file storage location that is used by version control systems to store multiple version of files. it includes multiple source code files.

2 Question 1

What version of the Linux kernel is running on your Pi?
Hint: run the console command "uname -r"

4.4.34-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"

8.0 version.

4 Question 3

How many blocks of memory are available in your root file system?
Hint: run the console command "df"

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