

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 : a source repository tool that allows to maintain and store a repository in the cloud for sharing, revising and editing purposes

apt-get : a command-line tool to handle installation and removal of packages

ntp : a Linux component that allows users to update system clock with online servers

sudo : a command-line tool that allows user to run programs with administrative privileges

cmake : a build file generator that allows user to automatically generate configurations for compiling and cross-platform sharing

kernel : a central part of any Operating System responsible for disk, task and memory management

code repository : a file archive hosted on the web where a large scale of source code for a software or program is kept either publicly or privately

2 Question 1

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

4.19.66 -v7+

3 Question 2

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

10

4 Question 3

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

20,485,712