**APPENDIX I**

Some random notes taken by researcher during the development phase of the research.

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| Sockit usage notes:  As root:  sudo chmod u+s /usr/bin/sudo  su linaro  sudo apt-get update && \  sudo apt-get upgrade && \  sudo ntpdate time.nist.gov && \  sudo apt-get install wget build-essential checkinstall libncurses5-dev libncurses5 libevent-1.4 libevent-dev libncurses5-dev pkg-config libpng12-0 libpng12-dev libpng++-dev libpng3 libpnglite-dev zlib1g-dbg zlib1g zlib1g-dev pngtools libtiff4-dev libtiff4 libtiffxx0c2 libtiff-tools ffmpeg v4l-conf v4l-utils v4l2ucp libjpeg-dev libpng-dev libtiff-dev libjasper-dev libavcodec-dev libavformat-dev libswscale-dev usbutils gparted vim less psmisc lynx gcc g++ xserver-xorg xterm firefox mplayer lxde xinit x11-apps xinput-calibrator mesa-utils prboom  ===============================================================================================  Check webcam  v4l2-ctl --list-formats  v4l2-ctl --list-formats-ext  v4l2-ctl --set-fmt-video=width=1280,height=720,pixelformat=1  v4l2-ctl --set-fmt-video=width=640,height=480,pixelformat=1  v4l2-ctl --set-parm=30  lsusb  ===============================================================================================  1. Find & install CMAKE  download cmake  http://www.cmake.org/cmake/resources/software.html  tar xf cmake\*  cd cmake\*  ./bootstrap && make && sudo make install  ===============================================================================================  Installing Synergy  sudo apt-get install xorg-dev libqt4-dev python  libcurl4-openssl-dev [cant be detected]  python-dev make gcc  http://synergy-foss.org/wiki/Compiling  ./hm.sh conf -g1 --make-gui  ./hm.sh build --make-gui  ===============================================================================================  HTOP  svn co https://htop.svn.sourceforge.net/svnroot/htop/trunk htop  --disable-unicode  ===============================================================================================  Installing OpenSSH  http://www.unixwiz.net/techtips/openssh.html#tarballs  ./configure --with-ipv4-default --with-md5-passwords --with-pam && make && make install  ssdh privilege escalation  groupadd sshd  useradd -M -g sshd -c 'sshd privsep' -d /var/empty -s /sbin/nologin sshd  passwd -l sshd  useradd -g root linaro  building cmake  http://www.cmake.org/cmake/help/install.html  http://docs.opencv.org/doc/tutorials/introduction/linux\_install/linux\_install.html  sudo apt-get install ffmpeg && \  sudo apt-get install v4l-conf v4l-utils v4l2ucp && \  sudo apt-get install libjpeg-dev libpng-dev libtiff-dev libjasper-dev && \  sudo apt-get install libavcodec-dev libavformat-dev libswscale-dev  ================================================================================================  time  sudo apt-get install ntp  Probably the ntp service is running, that's why ntpdate can't open the socket (port 123 UDP) and connect to ntp server.  Try from command line:  sudo service ntp stop  sudo ntpdate -s time.nist.gov  sudo service ntp start  If you want to put this in /etc/rc.local use the following:  ( /etc/init.d/ntp stop  until ping -nq -c3 8.8.8.8; do  echo "Waiting for network..."  done  ntpdate -s time.nist.gov  /etc/init.d/ntp start )&  http://askubuntu.com/questions/254826/how-to-force-a-clock-update-using-ntp  https://help.ubuntu.com/10.04/serverguide/NTP.html  ================================================================================================  chmod -R 777 /tmp  chmod -R 777 /usr/local/src  chown -R root:root /usr/bin/sudo  chmod 4755 /usr/bin/sudo  apt-get update  apt-get dist-upgrade  apt-get install wget  #!/bin/bash  cd /usr/local/src  //zlib  wget http://zlib.net/zlib-1.2.8.tar.gz  wget http://www.openssl.org/source/openssl-1.0.1f.tar.gz  wget ftp://ftp3.usa.openbsd.org/pub/OpenBSD/OpenSSH/portable/openssh-6.4p1.tar.gz  tar -xf openssh-6.4p1.tar.gz  tar -xf openssl-1.0.1f.tar.gz  tar -xf zlib-1.2.8.tar.gz  cd /usr/local/src  cd zlib-1.2.8  ./configure && make && sudo make install  cd ../openssl-1.0.1f  ./config && make && make test && sudo make install  cd ../openssh-6.4p1  ./configure --with-ipv4-default --with-md5-passwords && make  sudo groupadd sshd  sudo useradd -M -g sshd -c 'sshd privsep' -d /var/empty -s /sbin/nologin sshd  sudo passwd -l sshd  sudo make install  ================================================================================================  // set time  http://askubuntu.com/questions/254826/how-to-force-a-clock-update-using-ntp  apt-get install ntp  service ntp start  sudo service ntp stop  sudo ntpdate -s time.nist.gov  sudo service ntp start  //ssh  http://www.unixwiz.net/techtips/openssh.html  sshd re-exec requires execution with an absolute path  // install x11  // install arm compiler  sudo apt-get install libc6-dev-i386  download source  compile source  http://askubuntu.com/questions/251978/cannot-find-crti-o-no-such-file-or-directory  apt-get install libc-dev  export LIBRARY\_PATH=/usr/lib32:/usr/lib/x86\_64-linux-gnu  export LIBRARY\_PATH=/usr/lib/x86\_64-linux-gnu/  http://askubuntu.com/questions/98416/error-kernel-headers-not-found-but-they-are-in-place  sudo apt-get install linux-headers-$(uname-r)  http://stackoverflow.com/questions/11471722/libstdc-so-6-cannot-open-shared-object-file-no-such-file-or-directory  sudo apt-get install lib32z1  sudo apt-get install lib32z1 lib32z1-dev  sudo apt-get install lib32stdc++6  sudo apt-get install ia32-libs  sudo apt-get install uboot-mkimage  ================================================================================================  CHANGING IMAGE on Boot  http://sumanprasanna.wordpress.com/2012/12/11/how-to-change-your-boot-logo-in-linux-kernel/ |