Raspian for Klondike

Build and Install Notes

This SD card is based on the Raspian Server 2.4 image available from:

http://sirlagz.net/tag/raspbian-server-edition/

As indicated on that site I use dd to copy to the SD card, and then login and install packages needed for building and running cgminer. I've added a few other packages I find useful as well for small server monitoring. I've added some script files for auto-start of cgminer on boot up. I've also updated using apt-get upgrade.

After you plug the SD card into your RasPi and boot you will need to detect which IP address it is on. This can usually be found from your router client list or you can use the arp program from another system on the network.

```
arp -a
```

eg. receive back,
? (10.42.0.83) at b8:27:eb:2e:18:61 [ether] on eth0

```
ssh pi@10.42.0.83
pwd:raspberry
```

I have already run the raspi-config program to set locale but you may want to run that program again and adjust any settings for your own use.

I configured the system to work with WiFi as well as basic LAN connections. You can edit your WiFi connection details in /etc/wpa_supplicant/wpa_supplicant.conf if you want to use a WiFi USB dongle for access.

The packages I installed for building cgminer are:

autoconf libtool libncurses-dev curl libcurl4-openssl-dev pkg-config libusb-1.0

I added htop and screen for a nicer process monitor and ease with detached sessions.

I haven't added the main klondike repo and ktest programs as typically those would be more useful on a full desktop for testing/development.

Useful Info:

You may want to change your password after logging in,

```
passwd
```

Or use ssh key authentication instead of passwords. From your host system, after you have password login working,

ssh-copy-id pi@<your hostname or IP>

If you want to disable password login edit /etc/sshd/sshd_config. And change,

```
PasswordAuthentication no
```

To pull an updated cgminer-klondike from the repo, and build,

```
cd cgminer-klondike
git pull
make
```

The original commands used to configure cgminer and build were,

```
CFLAGS="-g -O0 -W -Wall" ./autogen.sh -enable-klondike
make
sudo make install
```

The default mining boot script uses "screen" to start a mining session that can be attached and detached from ssh as needed.

There is a bash alias set for attaching to the mining session,

```
alias mm='screen -r Mining'
```

So simply typing mm<enter> will attach you, and Ctrl-A Ctrl-D will detach again.

Edit the ~/.cgminer/cgminer.conf file to suit your own pool server, or edit within cgminer and save the config. By default I have set my own donation server details and much appreciate any mining you happen to do for me.