# Bootable SD card for the BBB from a prebuilt image of Ubuntu 16.04

In VirtualBox machine (Saucy32):

wget <https://rcn-ee.com/rootfs/2016-06-09/elinux/ubuntu-16.04-console-armhf-2016-06-09.tar.xz>

tar -xf to unpack

cd Ubuntu…

Carefully make sure /dev/sdb is the SD card to be used for the BBB

sudo ./setup\_sdcard.sh –mmc /dev/sdb –dtb beaglebone

Put the SD card in the BBB, hold down the ‘boot from SD’ button and turn on power.

Use monitor and keyboard first time. Log in user: Ubuntu pw: temppwd.

‘Ifconfig’ will show the current (DHCP) address. Set this to something static so can SSH instead of using monitor/keyboard. (today at 192.168.0.101). Or just note the DHCP address and SSH using that.

# Make a backup copy of the BBB on-board eMMC memory using dd

Boot from SD card and use SSH to log into the BBB (see above)

Unplug the keyboard, if any and plug in a USB flash drive

cd /mnt

sudo mkdir usb

sudo chmod 777 usb

sudo mount /dev/sda1 /mnt/usb

dd bs=1M count=1832 if=/dev/mmcblk1 of=/mnt/usb/emmc\_orig\_contents.img

# Restore BBB on-board eMMC memory from a backup copy using dd

dd bs=1M if=/mnt/emmc\_orig\_contents.img of=/dev/mmcblk1

# Install a fresh 16.04 image on the onboard eMMC memory

Use Xenial32 VM from Virtual box

Put SD card in a chip reader and connect to USB

Change VM machine settings to add the chip reader to the USB

Double check that the SD card to be programmed is at /dev/sdb

xzcat BBB-eMMC-flasher-ubuntu-16.04-console-armhf-2016-06-09-2gb.img.xz | sudo dd of=/dev/sdb

It takes a long time – be patient. Eventually it will complete showing the amount copied.

Put the SD card in the BBB, hold down the ‘boot from SD’ button and turn on power

If flasher boots OK will see twinkly lights and can observer progress on the HDMI port.

When done, remove SD card and cycle power – the BBB will boot into Ubuntu 16.04 LTS