

### **Backing up Beaglebone Image on a smaller sd card:**

- **First create a back up image of the original card:**
  1. Insert the SD card (I am assuming you are doing it on ubuntu).
  2. `$mount`
    - two partitions of the card should show up as `/dev/sdb1` and `/dev/sdb2`
  3. Eject the card (this will unmount both partitions)
  4. Use dd to clone the card:  
`$dd if=/dev/sdb of=sdimage.img bs=4M`
  
- **Next shrink the card to a smaller size with gparted ( Shrink the Rootfs partition).**
  
- **Now create the image of the shrunk card with dd. However copy only the shrunk part of the card. You can do this by telling dd exactly how many bytes to copy. Say you have shrunk the card to a size of 4GB.**  
`$dd if=/dev/sdb of=sdimage_icebreaker.img bs=4M count=1024`  
(bs= sets the blocksize ; count= copies only this number of blocks )
  
- **Now write, this shrunk image to the new card using the disks utility:**

On the upper right hand corner, there should be a wheel like icon. Click on it and select Restore Image.