

### Resize a Current Partition

- A boot disk or Live CD, or Rescue System is required to run the commands below

I needed to shrink a 135gb ext3 partition to 35gb, leaving space for another partition.

```
parted //the debian program
```

The process:

```
parted /dev/sda
```

```
p //print partitions
```

```
resize # // where # is current partition number to be resized, e.g. "2" where partition is /dev/sd  
Start? [blah] //should be ok by default  
End? [Type in New End of Partition]
```

That should do it.

### Create a Partition

Once the above resizing is done, and there unallocated space on the disks, type - `fdisk /dev/sda` to see partitions. A new partition can be CREATED from the now available free space.

Choose the TYPE of the Partition required - ext3 or RAID etc.

In order to format the new partition created using `fdisk` (above):

```
mke2fs -j /dev/sda3
```

That should do it. `fdisk` will show the format and partitions for you to check.

```
mount /dev/sda3 /mnt/newfolder //will mount it.
```

### Problems, Pitfalls, and Solutions

1. The space you shrink to - make sure to allow PLENTY of room for the filesystem!!!! 35gb turned out to leave 32gb!!
2. Now - if parted gives the following error:

```
No Implementation: This ext2 filesystem has a rather strange layout! Parted can't resize this (yet)
```

You need to get the latest "testing" version of parted - v. 1.7 Debian sarge using 1.6. You will need to change `/etc/apt/sources.list` to move to testing (on rescue system) and upgrade. The new version of parted should work fine.

## Resize & Create Partitions in Debian

Sources:

<http://www.linuxquestions.org/questions/showthread.php?t=360042>

<http://www.linuxforums.org/forum/debian-linux-help/49045-how-format-hard-disk.html>