
I did this using Slackware 13.0 i386 version on the HP dx2300, which seems to have a 32-bit dual core or hyperthreading CPU.

YOU MUST SET THE PARTITION TYPE TO 'LINUX RAID AUTODETECT'!

1. cfdisk /dev/sda
    - /dev/sda1 = swap = 2GB
    - /dev/sda2 = root = 10GB
    - /dev/sda3 = data = 488104.57MB
    - set all three partitions to type = FD (Linux RAID Autodetect)
2. reboot so the new partitions can be properly recognised
3. sfdisk -d /dev/sda | sfdisk /dev/sdb
4. reboot so the new partitions can be properly recognised
5. mdadm --create /dev/md0 --level=1 --raid-disks=2 /dev/sda1 /dev/sdb1
6. mdadm --create /dev/md1 --level=1 --raid-disks=2 /dev/sda2 /dev/sdb2
7. mdadm --create /dev/md2 --level=1 --raid-disks=2 /dev/sda3 /dev/sdb3
    - you can observe the process of building the RAID with

      ```
      watch cat /proc/mdstat
      ```

      The last one will take some time (over an hour in this case).
8. then, run 'setup' as normal
    - after installation, run the following command
9. **mdadm --examine --scan >> /etc/mdadm.conf**
10. **mkfs.ext4 /dev/md1**
11. mkdir /data
12. vi /etc/fstab (to include)
    - /dev/md1 /data ext4 defaults 0 0

Ok, so I did a strange thing here. Instead of waiting for the third RAID to finish being built, I went ahead and installed Slackware. I figured that since the third RAID disk was not going to be used for the installation, it wouldn't affect anything.

As a matter of fact, I had interrupted the build process by shutting down the machine after it had started because I wanted to check the BIOS to see if the machine had Hyperthreading turned on. It doesn't seem to have Hyperthreading after all. When I re-booted off the CD, I check to see if the build process had re-started and was pleasantly surprised to find that it was continuing in the background.

PS. you may have to issue the following commands first to stop/clear any old pre-existing RAIDs

- mdadm --stop /dev/md0
- mdadm --stop /dev/md1
- mdadm --stop /dev/md2
- mdadm --zero-superblock /dev/sda1
- mdadm --zero-superblock /dev/sda2
- mdadm --zero-superblock /dev/sda3
- mdadm --zero-superblock /dev/sdb1
- mdadm --zero-superblock /dev/sdb2
- mdadm --zero-superblock /dev/sdb3

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Revision r1.2 - 28 Oct 2014 - 18:22 GMT - Main.rhamel

MCL.SettingUpRAIDonHPdx2300 moved from Main.SettingUpRAIDonHPdx2300 on 19 Sep 2010 - 15:42 by Main.rhamel