

# Repro problem with 340 drivers

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- Basic system info
  - Dell Precision T3600
  - Two Quadro K600 cards, each with two Dell 20" LCDs over DVI (using included dp-to-dvi adapter as required)
  - Debian Jessie (testing) AMD64
- Creating a basic install on a secondary partition while running another instance of linux
  - Created partition, mounted it on /mnt/debinst
  - Install bare debian system with debootstrap
    - `sudo debootstrap --arch amd64 jessie /mnt/debinst http://mirrors.linux.iu.edu/linux/debian/`
  - Set up minimal fstab with `sudo nano debinst/etc/fstab`
    - `/dev/md0p8 / ext4 errors=remount-ro,relatime 0 1`
    - `/dev/md0p5 none swap sw 0 0`
  - ```
proc /proc proc defaults 0 0
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  - Prepare for chroot for further install
    - `sudo mount -t proc none /mnt/debinst/proc`
    - `sudo mount -o bind /dev /mnt/debinst/dev`
    - `sudo mount -o bind /sys /mnt/debinst/sys`
  - Enter chroot
    - `LANG=C.UTF-8 sudo chroot /mnt/debinst /bin/bash`
  - While inside chroot:
    - edit /etc/apt/sources.list to add contrib, non-free components
    - `apt-get update`
    - `apt-get install linux-image-amd64 bash-completion`
    - `passwd`
    - `tasksel install standard`
    - `adduser rpavlik`
    - `tasksel install gnome-desktop`
      - should have just done `apt-get install gnome-core` or `gnome-desktop-environment`
    - `apt-get install mdadm`
      - because I am using software raid
    - Copied in /etc/mdadm/mdadm.conf from main system (yes, outside chroot)
    - `dpkg-reconfigure mdadm`
  - In main system
    - `sudo update-grub`
    - rebooted into new install
  - Equivalent install technique
    - Install the latest Debian Jessie, making sure everything is up to date (the netinst cd is good for that) - you'll want to install the GNOME Desktop
    - To be able to get to the nvidia driver packages I used, as root edit /etc/apt/sources.list and where it says "main" add after it "contrib non-free" then do `apt-get update`

- When booted into fresh jessie install
  - enable NVidia proprietary driver
    - apt-get install nvidia-glx
      - acknowledge warning about nouveau - we will just reboot when done
    - apt-get install nvidia-xconfig
    - nvidia-xconfig --base-mosaic
    - reboot
    - May wish to install ssh server to be able to do easier postmortem
  - Trigger display freeze then input freeze:
    - log into GNOME
    - start iceweasel (aka firefox web browser)
    - Open the file manager
    - Press control-n to open a new window
  - Results:
    - mouse clicks stop doing anything, then shortly after mouse movements are impossible.
    - after several minutes, the displays will one by one flicker, then turn off (DPMS-like)
    - Once all are off, after a little bit the display manager (login screen) comes back.