Display Status prüfen

```
thommie@odysseus3:~> xrandr
xrandr: Failed to get size of gamma for output default
Screen 0: minimum 1920 x 1080, current 1920 x 1080, maximum 1920 x 1080
default connected primary 1920x1080+0+0 0mm x 0mm
   1920x1080     77.00*
```

Bildschirmeinstellungen zurücksetzen

```
xrandr -s 0
```

Analyse mit inxi (zypper in inxi)

```
odysseus3:~ # inxi -Fxz
System:    Host: odysseus3 Kernel: 4.12.14-lp151.27-default x86_64 bits: 64
gcc: 7.4.0 Console: tty 0
           Distro: openSUSE Leap 15.1
Machine:   Device: laptop System: Dell product: Precision 7530 serial:
<filter>
           Mobo: Dell model: 03RV2M v: A00 serial: <filter> UEFI: Dell v:
1.6.0 date: 12/25/2018
Battery    BAT0: charge: 60.4 Wh 100.0% condition: 60.4/64.0 Wh (94%) model:
BYD DELL GHXKY8B status: Full
CPU:       Hexa core Intel Core i7-8750H (-HT-MCP-) arch: Skylake rev.10
cache: 9216 KB
           flags: (lm nx sse sse2 sse3 sse4_1 sse4_2 ssse3 vmx) bmips: 26496
           clock speeds: max: 4100 MHz 1: 2200 MHz 2: 2200 MHz 3: 2200 MHz
4: 2200 MHz 5: 2200 MHz 6: 2200 MHz
           7: 2200 MHz 8: 2200 MHz 9: 2200 MHz 10: 2200 MHz 11: 2200 MHz 12:
2200 MHz
Graphics:  Card-1: Intel Device 3e9b bus-ID: 00:02.0
           Card-2: NVIDIA Device 1cba bus-ID: 01:00.0
           Display Server: X.org 1.20.3 drivers: fbdev (unloaded:
modesetting,vesa)
           tty size: 130x35 Advanced Data: N/A for root out of X
Audio:     Card Intel Device a348 driver: snd_hda_intel bus-ID: 00:1f.3
Sound: ALSA v: k4.12.14-lp151.27-default
Network:   Card-1: Intel Ethernet Connection (7) I219-LM driver: e1000e v:
3.2.6-k bus-ID: 00:1f.6
           IF: em1 state: down mac: <filter>
           Card-2: Intel Device 2526 driver: iwlwifi bus-ID: 6f:00.0
           IF: wlan0 state: up speed: N/A duplex: N/A mac: <filter>
Drives:    HDD Total Size: 512.1GB (52.0% used)
           ID-1: /dev/nvme0n1 model: KXG5AZNV512G_NVMe_SED_TOSHIBA_512GB
size: 512.1GB
Partition: ID-1: / size: 150G used: 23G (15%) fs: btrfs dev: /dev/nvme0n1p2
           ID-2: /var size: 150G used: 23G (15%) fs: btrfs dev:
/dev/nvme0n1p2
```

```
           ID-3: /opt size: 150G used: 23G (15%) fs: btrfs dev:
/dev/nvme0n1p2
           ID-4: /tmp size: 150G used: 23G (15%) fs: btrfs dev:
/dev/nvme0n1p2
           ID-5: /home size: 120G used: 59G (50%) fs: xfs dev: /dev/dm-0
           ID-6: swap-1 size: 38.65GB used: 0.00GB (0%) fs: swap dev:
/dev/nvme0n1p5
Sensors:   None detected - is lm-sensors installed and configured?
Info:      Processes: 351 Uptime: 0:53 Memory: 2537.2/31919.5MB Init:
systemd runlevel: 5 Gcc sys: 7.4.0
           Client: Shell (bash 4.4.231) inxi: 2.3.40
```

Nvidia Treiber patchen

Download the following NVIDIA Driver Compiler/Installer file from NVIDIA website for Linux: NVIDIA-Linux-x86_64-340.102.run

Go into CLI/Terminal, and SU into root(#)

Completely Exit Xorg Server: The command "systemctl isolate multi-user.target" usually followed by "CTL+ALT+[F1 to F6]" will do this

```
systemctl isolate multi-user.target
```

In CLI, go into root then provide execution permissions:

```
chmod 755 NVIDIA-Linux-x86_64-340.102.run
```

Extract the Nvidia Driver Compiler/Installer Contents & Source Files: "./NVIDIA-Linux-x86_64-340.102.run –extract-only"

Copy [cp] Patch File "nv_patch_340.102_linux_kernel_4.11" into "NVIDIA-Linux-x86_64-340.102" directory

Go into [cd] "NVIDIA-Linux-x86_64-340.102" directory where patch file is now located

Apply Patch in that directory:

```
patch -p0 <nv_patch_340.102_linux_kernel_4.11
```

Proceed with NVIDIA Driver Compilation & Installation by running "./nvidia-installer". Important: Make sure the Nouveau Driver is disabled-blacklisted and **modeset set to 0 in /etc/modprobe.d** with "blacklist nouveau" & "**options nouveau modeset=0**", and the Initial RAM Disk (initrd) is created prior to compiling, installing & rebooting. Enjoy!

Note: You may wish to test out the patch first by executing a Dry-Run with:

```
patch –dry-run -p0 <nv_patch_340.102_linux_kernel_4.11
```

Nvidia & Bumblebee

Prüfen, welche Karten eingebaut sind (mit zypper in lshw)

```
odysseus3:~ # lshw -c video
  *-display UNCLAIMED
       description: VGA compatible controller
       product: GP107GLM [Quadro P2000 Mobile]
       vendor: NVIDIA Corporation
       physical id: 0
       bus info: pci@0000:01:00.0
       version: a1
       width: 64 bits
       clock: 33MHz
       capabilities: pm msi pciexpress vga_controller bus_master cap_list
       configuration: latency=0
       resources: memory:b2000000-b2ffffff memory:70000000-7fffffff
memory:b0000000-b1ffffff ioport:3000(size=128) memory:b3000000-b307ffff
  *-display UNCLAIMED
       description: VGA compatible controller
       product: UHD Graphics 630 (Mobile)
       vendor: Intel Corporation
       physical id: 2
       bus info: pci@0000:00:02.0
       version: 00
       width: 64 bits
       clock: 33MHz
       capabilities: pciexpress msi pm vga_controller bus_master cap_list
       configuration: latency=0
       resources: memory:b4000000-b4ffffff memory:60000000-6fffffff
ioport:4000(size=64) memory:c0000-dffff
```

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Last update: **05/03/2024 - 10:52**