**This will be a step-by-step tutorial on how to Install NVidia drivers, enabling SLI (if applicable) & control the GPU-fan speed at start-up.  
  
1. Installation of Drivers  
2. Enabling SLI  
3. Fan control at boot**

**INSTALLATION OF DRIVERS:**

**For installation of STABLE drivers, add the following PPA to your system**

**CODE:**

deb http://ppa.launchpad.net/ubuntu-x-swat/x-updates/ubuntu trusty main

deb-src http://ppa.launchpad.net/ubuntu-x-swat/x-updates/ubuntu trusty main

**CODE:**

sudo apt-get update

**CODE:**

sudo apt-get upgrade && sudo apt-get dist-upgrade

**Once everything is done, close it out and open up your "Driver Manager" and select the version you want.  
STABLE = nVidia-352.63   
--You can select nVidia-352-updates, if you want to... but it's less stable.  
  
Once you've chosen, let it install and complete (this may take a few minutes) then reboot when completed.  
A. In terminal run:**

**CODE:**

sudo nvidia-xconfig

**B. In terminal run:**

**CODE:**

sudo nvidia-xconfig --cool-bits=12

**C. In terminal run:**

**CODE:**[**SELECT ALL**](https://forums.linuxmint.com/viewtopic.php?t=215078)

sudo reboot

**D. Once booted, run:**

**CODE:**[**SELECT ALL**](https://forums.linuxmint.com/viewtopic.php?t=215078)

sudo nvidia-settings

**E. Click on x-server and set up your display(s), then apply.  
F. Click "save to x-configuration file.   
G. Click THERMAL SETTINGS under your video card  
H. Click AGREE, scroll to bottom, then close.  
I. adjust fan to desired speed.**  
**J. Close settings window & terminal.**

**SETTING UP SLI**

**- begin by getting everything closed out, so your DE is running.  
- open your terminal, and enter**

**CODE:**

sudo nvidia-xconfig --sli=On

**A. a new xorg.conf will be created... this is normal. Accept the new build and continue.  
B. Once that's done, enter**

**CODE:**

sudo reboot

**C. After reboot, open your file-browser (nemo) and head to /etc/X11   
D. As root, open xorg.conf and in (Section "Screen") change SLI from off to On. (big O, little n)  
E. Save and close the file.   
  
-- continue to next section for FAN CONTROL.**

**FAN CONTROL AT START-UP:**  
**--- If you have done all of the above in this tutorial, then you do not need to do the first step in this section.**  
**A. In terminal run: "sudo nvidia-xconfig --cool-bits=12"**

**B. Navigate to ~/.config/autostart/ now create a document named "nvidia-fan-speed.desktop"**

**C. open the file with a text editor.**

**D. so there are no fowl-ups, copy and paste the text below into the file.**

**E. replace XX with the fan speed you would like. 10-100, numerical value only, no percent sign needed.**

**CODE:**

[Desktop Entry]

Type=Application

Exec=nvidia-settings -a "[gpu:0]/GPUFanControlState=1" -a "[fan:0]/GPUCurrentFanSpeed=XX"

X-GNOME-Autostart-enabled=true

Name=nvidia-fan-speed

**F. To add in the second GPU-fan, add the code below into the file.**

**CODE:**

[Desktop Entry]

Type=Application

Exec=nvidia-settings -a "[gpu:1]/GPUFanControlState=1" -a "[fan:1]/GPUCurrentFanSpeed=XX"

X-GNOME-Autostart-enabled=true

Name=nvidia-fan-speed

**G. save and exit the file.  
H. log out of your system, then back in..**