

# Tips for installation CUDA on ubuntu

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## 1 Steps

(installed CUDA 7.0 on ubuntu 14.10/15.04)

Generally use:

<http://docs.nvidia.com/cuda/cuda-getting-started-guide-for-linux/>

### 1.1 Check device

```
update-pciids  
lspci | grep -i nvidia
```

### 1.2 Update drivers

log in Ctrl + Alt + F1

```
sudo service lightdm stop  
sudo apt-get purge nvidia-current nvidia-settings  
sudo apt-get install linux-headers-generic  
sudo apt-get install nvidia-current-updates
```

### 1.3 Download cuda

The best option is to install cuda toolkit from remote debian package (.deb) that is available on <https://developer.nvidia.com/cuda-downloads>.

Choose network installer

Install cuda from package

```
sudo dpkg -i cuda-repo-<distro>_<version>_<architecture>.deb  
sudo apt-get update  
sudo apt-get install cuda
```

### 1.4 Blacklist wrong drivers

Create a file at /etc/modprobe.d/blacklist-nouveau.conf with the following contents:

```
blacklist nouveau  
options nouveau modeset=0
```

Regenerate the kernel initramfs:

```
$ sudo update-initramfs -u
```

## 1.5 Set \$PATH

write in ~/.bashrc :

```
export CUDA_HOME=/usr/local/cuda-7.0
export LD_LIBRARY_PATH=${CUDA_HOME}/lib64
PATH=${CUDA_HOME}/bin:${PATH}
export PATH
```