

CUDA 10.0

Installation de CUDA 10.0 sous Linux Mint 19.0

Supprimer tous les PPA CUDA existants :

```
sudo rm /etc/apt/sources.list.d/cuda*
```

Supprimer tous les toolkits NVIDIA existants :

```
sudo apt remove nvidia-cuda-toolkit
```

Supprimer tous les pilotes NVIDIA existants :

```
sudo apt remove nvidia-*
```

Mise à jour du système :

```
sudo apt update
```

Installer la clé :

```
sudo apt-key adv --fetch-keys  
http://developer.download.nvidia.com/compute/cuda/repos/ubun  
tu1804/x86_64/7fa2af80.pub
```

Ajouter le dépôt :

```
sudo bash -c 'echo "deb  
http://developer.download.nvidia.com/compute/cuda/repos/ubun  
tu1804/x86_64/" > /etc/apt/sources.list.d/cuda.list'
```

Remettre à jour le système :

```
sudo apt update
```

Installer le pilote NVIDIA 410 :

```
sudo apt install nvidia-driver-410
```

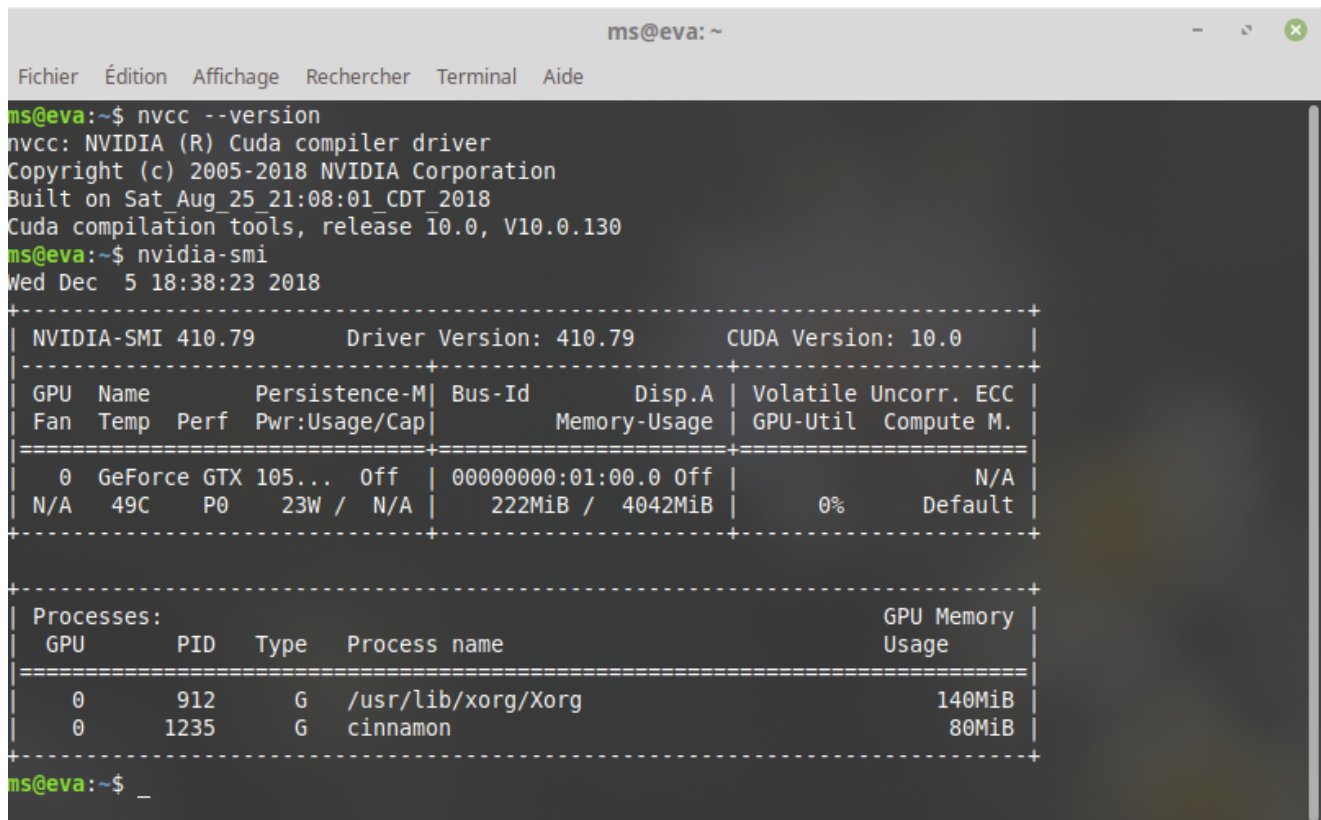
Installer CUDA 10.0 :

```
sudo apt install cuda-10-0
```

Ajouter les 3 lignes suivantes en fin de fichier .bashrc :

```
# CUDA 10.0
export PATH=/usr/local/cuda-10.0/bin:$PATH
export
LD_LIBRARY_PATH=/usr/local/cuda-10.0/lib64:$LD_LIBRARY_PATH
```

Rebouter l'ordinateur



The image shows a terminal window titled 'ms@eva: ~' with a menu bar containing 'Fichier', 'Édition', 'Affichage', 'Rechercher', 'Terminal', and 'Aide'. The terminal output is as follows:

```
ms@eva:~$ nvcc --version
nvcc: NVIDIA (R) Cuda compiler driver
Copyright (c) 2005-2018 NVIDIA Corporation
Built on Sat Aug 25 21:08:01 CDT 2018
Cuda compilation tools, release 10.0, V10.0.130
ms@eva:~$ nvidia-smi
Wed Dec 5 18:38:23 2018
+-----+
| NVIDIA-SMI 410.79      Driver Version: 410.79      CUDA Version: 10.0     |
+-----+-----+-----+
| GPU  Name                Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp   Perf          Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compute M. |
+-----+-----+-----+
|  0  GeForce GTX 105...   Off          | 00000000:01:00.0 Off  |          N/A         |
| N/A   49C    P0           23W /  N/A   | 222MiB / 4042MiB |           0%      Default |
+-----+-----+-----+

+-----+-----+-----+
| Processes:                                                       GPU Memory |
|  GPU       PID    Type   Process name                               Usage      |
+-----+-----+-----+
|    0         912    G     /usr/lib/xorg/Xorg                           140MiB    |
|    0        1235    G     cinnamon                                    80MiB     |
+-----+-----+-----+
ms@eva:~$ _
```