

cuda

Copied from here:

https://www.reddit.com/r/chia/comments/18z4lnp/how_to_install_bladbit_cuda_on_ubuntu/

My steps (I am running ubuntu 22.04, i Had problems with 24.10 due to some dependencies)

I prefer installing the drivers from PPA to get an updated version but "sudo apt install nvidia-driver-535" would also work. the important part is to verify with "nvidia-smi" after reboot

-----Install NVIDIA Drivers on Ubuntu 22.04 via CUDA PPA-----

```
sudo apt install dirmngr ca-certificates software-properties-common apt-transport-https dkms  
curl -y
```

#import the GPG key

```
curl -fSsL  
https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64/3bf863cc.pub | sudo  
gpg --dearmor | sudo tee /usr/share/keyrings/nvidia-drivers.gpg > /dev/null 2>&1
```

#add the NVIDIA repository for your system

```
echo 'deb [signed-by=/usr/share/keyrings/nvidia-drivers.gpg]  
https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64/ /' | sudo tee  
/etc/apt/sources.list.d/nvidia-drivers.list
```

```
sudo apt update
```

Check available Dirver

```
apt search nvidia-driver-*
```

I Chose driver-545 that is a newer driver than the avaiable on the ubuntu repository for 22.04

```
sudo apt install nvidia-driver-545 cuda
```

#Check Driver version

```
nvidia-smi
```

-----Install BaldeBit CUDA-----

#install pre-req

```
sudo apt install -y build-essential cmake libgmp-dev libnuma-dev
```

#Build

```
cd
```

```
git clone https://github.com/Chia-Network/bladebit.git
```

```
cd bladebit
```

```
git checkout cuda-compression
```

```
mkdir -p build-release && cd build-release
```

```
cmake .. && cmake --build . --config Release --target bladebit_cuda -j$(nproc --all)
```

#run

```
cd ~/bladebit/build-release
```

```
./bladebit_cuda -n 1 -f XXX -c XXX --compress XXX cudaplot /media/temp_plots
```

#replace with your farmer key, pool contract, compression level and save directory

-----Some Other must have -----

#-----monitoring with a nice terminal GUI-----

```
sudo apt install bpytop
```

```
bpytop
```

#-----Moving plots to a final destination-----

```
cd
```

```
git clone https://github.com/lmacken/plow.git
```

#edit plow configuration (most important "SOURCES =" & "DESTS ="

```
sudo nano ./plow/plow.py
```

#install Python

```
sudo apt install python3-pip
```

```
pip install aionotify
```

```
python3 ./plow/plow.py
```

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