**Install Ethminer on Ubuntu**

1. **Install Nvidia Driver & CUDA 7.5**

sudo -s

add-apt-repository ppa:xorg-edgers/ppa -y

apt-get update

apt-get install nvidia-352 libcuda1-352

wget http://developer.nvidia.com/compute/cuda/7.5/RC/local\_installers/cuda-repo-ubuntu1404-7-5-rc\_7.5-7\_amd64.deb

dpkg -i cuda-repo-ubuntu1404-7-5-rc\_7.5-7\_amd64.deb

sudo apt-get -y update

sudo apt-get -y upgrade

apt-get -y install cuda

reboot

1. **Install the latest version of cmake**

sudo apt-add-repository ppa:george-edition55/cmake-3.x

1. **Install Ethereum**

sudo apt-get -y install language-pack-en-base

sudo dpkg-reconfigure locales

sudo apt-get -y install software-properties-common

wget -O - http://llvm.org/apt/llvm-snapshot.gpg.key | sudo apt-key add -

sudo add-apt-repository "deb http://llvm.org/apt/trusty/ llvm-toolchain-trusty main"

sudo add-apt-repository -y ppa:ethereum/ethereum-qt

sudo add-apt-repository -y ppa:ethereum/ethereum

sudo add-apt-repository -y ppa:ethereum/ethereum-dev

sudo apt-get -y update

sudo apt-get -y upgrade

1. **Install develop package**

apt-get -y install cpp-ethereum screen cuda build-essential git cmake libboost-all-dev libgmp-dev libleveldb-dev libminiupnpc-dev libreadline-dev libncurses5-dev libcurl4-openssl-dev libcryptopp-dev libjson-rpc-cpp-dev libmicrohttpd-dev libjsoncpp-dev libargtable2-dev llvm-3.8-dev libedit-dev mesa-common-dev ocl-icd-libopencl1 opencl-headers libgoogle-perftools-dev qtbase5-dev qt5-default qtdeclarative5-dev libqt5webkit5-dev libqt5webengine5-dev ocl-icd-dev libv8-dev

**Now, you’re ready for building your owner Ethminer.**

1. **Get the source:**

Command line: git clone <https://github.com/Genoil/cpp-ethereum> (Default: cudaminer-frontier branch now)

Or you can download a ZIP file directly at <https://github.com/Genoil/cpp-ethereum>, then Extract the source into Home folder.

Note: cudaminer-frontier requires 8Gb Ram to build ethminer.

1. **Build Ethminer:**

cmake -DBUNDLE=cudaminer (optionally add -DCOMPUTE=50 for GTX750Ti-only rig)

Note: if you get any error at this step, you can try to remove “-Werror”

cd cpp-ethereum

gedit cmake/EthCompilerSettings.cmake

Remove "-Werror" around line 5, then SAVE.

make –j4

reboot

1. **RUN:**

sudo –s

cd cpp-ethereum/ethminer/

./ethminer –U –F <http://xxx> –cuda-devices 0 1…

**Overclock GTX750ti:** you have to enable OC feature in NVIDIA X Server Settings

sudo nvidia-xconfig -a --cool-bits=28 --allow-empty-initial-configuration

reboot

**If like to build CCminer for Quark, Lyrav2…**

https://gist.github.com/zcshiner/4b32980792d367222304