CUDA Installation Tips

Prerequisites:

- Check whether your PC is with CUDA-Enabled NVIDIA GPU.
- Check compute capability for your NVIDIA GPU.
  https://developer.nvidia.com/cuda-gpus

GeForce and TITAN Products

GPU	Compute Capability
NVIDIA TITAN RTX	7.5
Geforce RTX 2080 Ti	7.5
Geforce RTX 2080	7.5
Geforce RTX 2070	7.5
Geforce RTX 2060	7.5
NVIDIA TITAN V	7.0

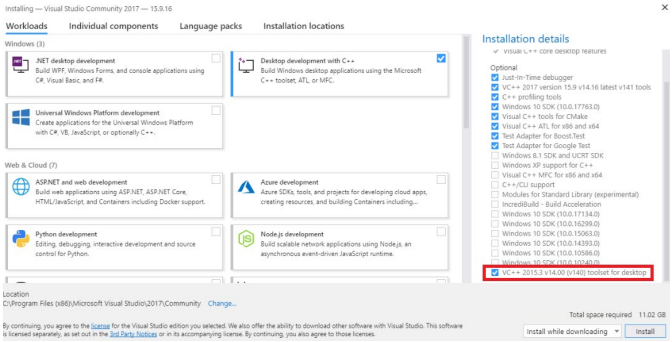
GeForce Notebook Products

GPU	Compute Capability
Geforce RTX 2080	7.5
Geforce RTX 2070	7.5
Geforce RTX 2060	7.5
GeForce GTX 1080	6.1
GeForce GTX 1070	6.1
GeForce GTX 1060	6.1

- Check the compute capability for supporting features.
  https://docs.nvidia.com/cuda/cuda-c-programming-guide/index.html#compute-capabilities
- Download appropriate version of CUDA basing on your display adapter and compute capability.
  https://developer.nvidia.com/cuda-downloads
  (select “Legacy Release” if latest version is not suitable for your environment)

Windows:

- Install Visual Studio
  VS2019 supports CUDA 10.0+
  VS2017 supports CUDA 9.1+
  VS2015 supports CUDA 8.0-
  (For VS2017, please install VC++ 2015 tooklit for better support)



- Follow the installation guide to Install CUDA
  (Make sure Virtual Studio has been installed)
  https://docs.nvidia.com/cuda/cuda-installation-guide-microsoft-windows/index.html
- Test installation
  Open cmd, and type
  “cd C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v9.2\extras\demo_suite”
  (update v9.2 as the version you installed)
  Execute “deviceQuery.exe”
  If it returns “Result = Pass”, then the installation is fine.

Mac:

- Follow the installation guide to install CUDA.
  https://docs.nvidia.com/cuda/cuda-installation-guide-mac-os-x/index.html

Linux:

- Follow the installation guide to install CUDA.
  https://docs.nvidia.com/cuda/cuda-installation-guide-linux/index.html
  (Tips: Do not install CUDA in your virtual machine.)