ASUS IoT

AISVision

Installation guide v1.6

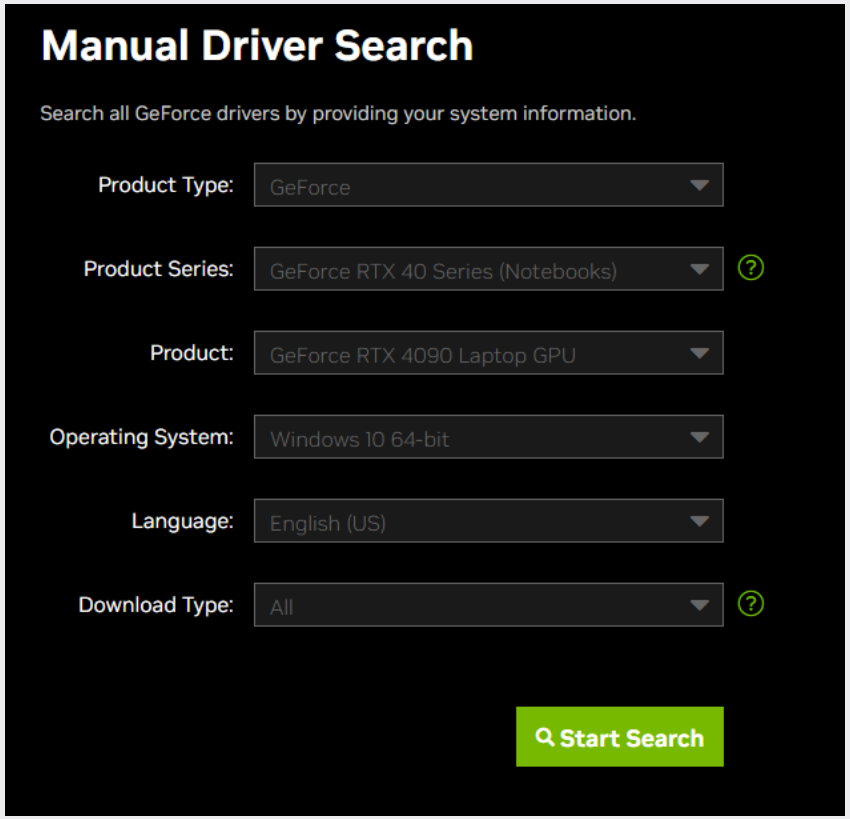
Guideline

- Install or renew NVIDIA GPU driver
- Environment set up
  - NVIDIA CUDA Toolkit
  - NVIDIA cuDNN
  - Microsoft VC_redist.x64
- Environment variables setting
- Install AISVision

Install or renew NVIDIA GPU driver

Install or renew NVIDIA GPU driver

1. If the graphics driver is not the latest version, please go to the NVIDIA official website driver to download. (https://www.nvidia.com/en-us/drivers/)
2. Select the appropriate graphics card model, select Studio Driver at Download Method, and press Start Search.

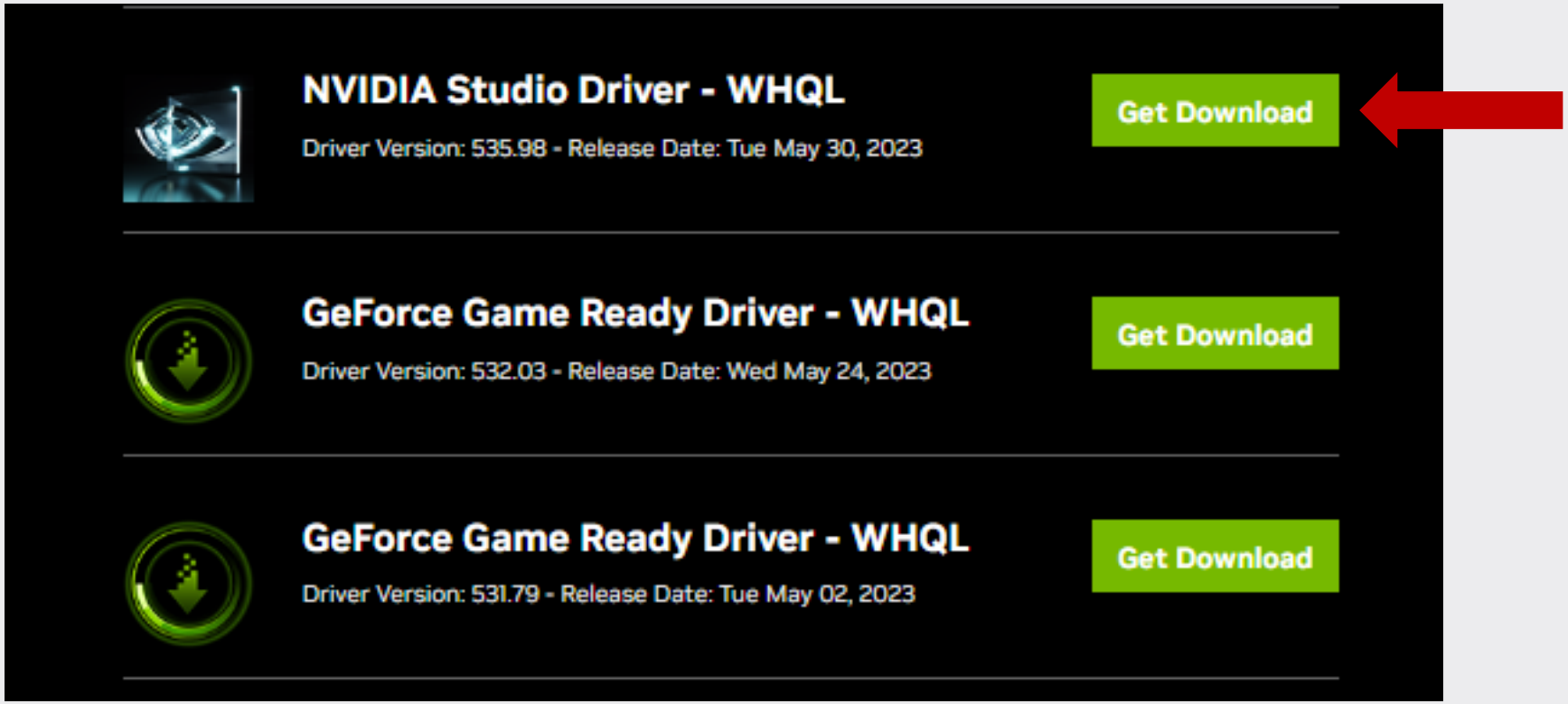


Install or renew NVIDIA GPU driver

3. Select the latest version of the driver to download. (The latest version of this manual is 535.98 at the time of production)

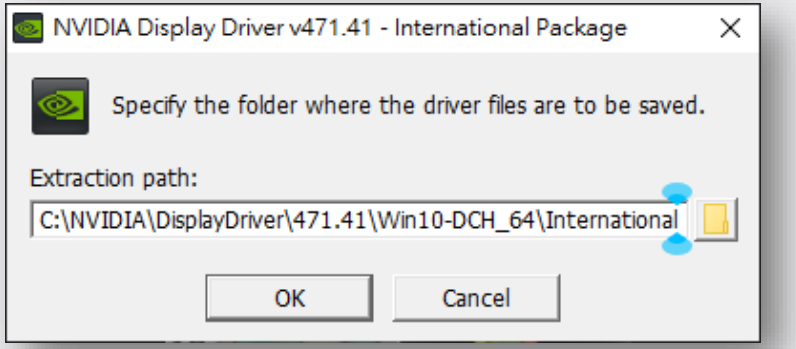
Note : The minimum driver version should be **520.06** or above.

Check location: Windows Settings→Application→Search for “NVIDIA” →Look for “ NVIDIA Graphics Driver” and check the version number.



Install or renew NVIDIA GPU driver

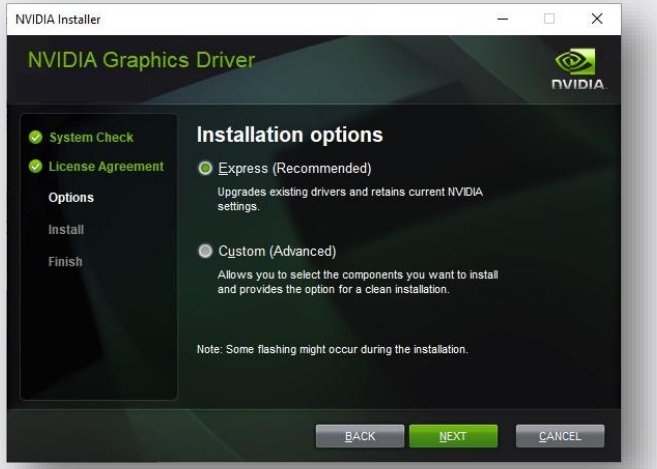
4. Execute the downloaded driver and click OK to extract it。



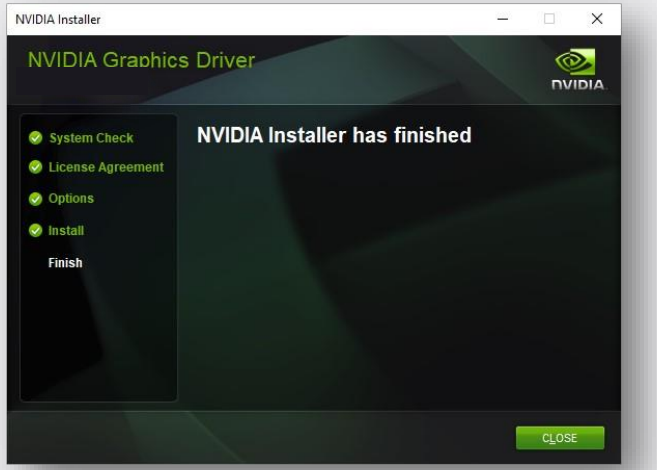
5. Select the graphics driver, click Agree and Continue.

Install or renew NVIDIA GPU driver

6. Select Quick Install and click Next Installation



7. Wait for the installer to finish shutting down.



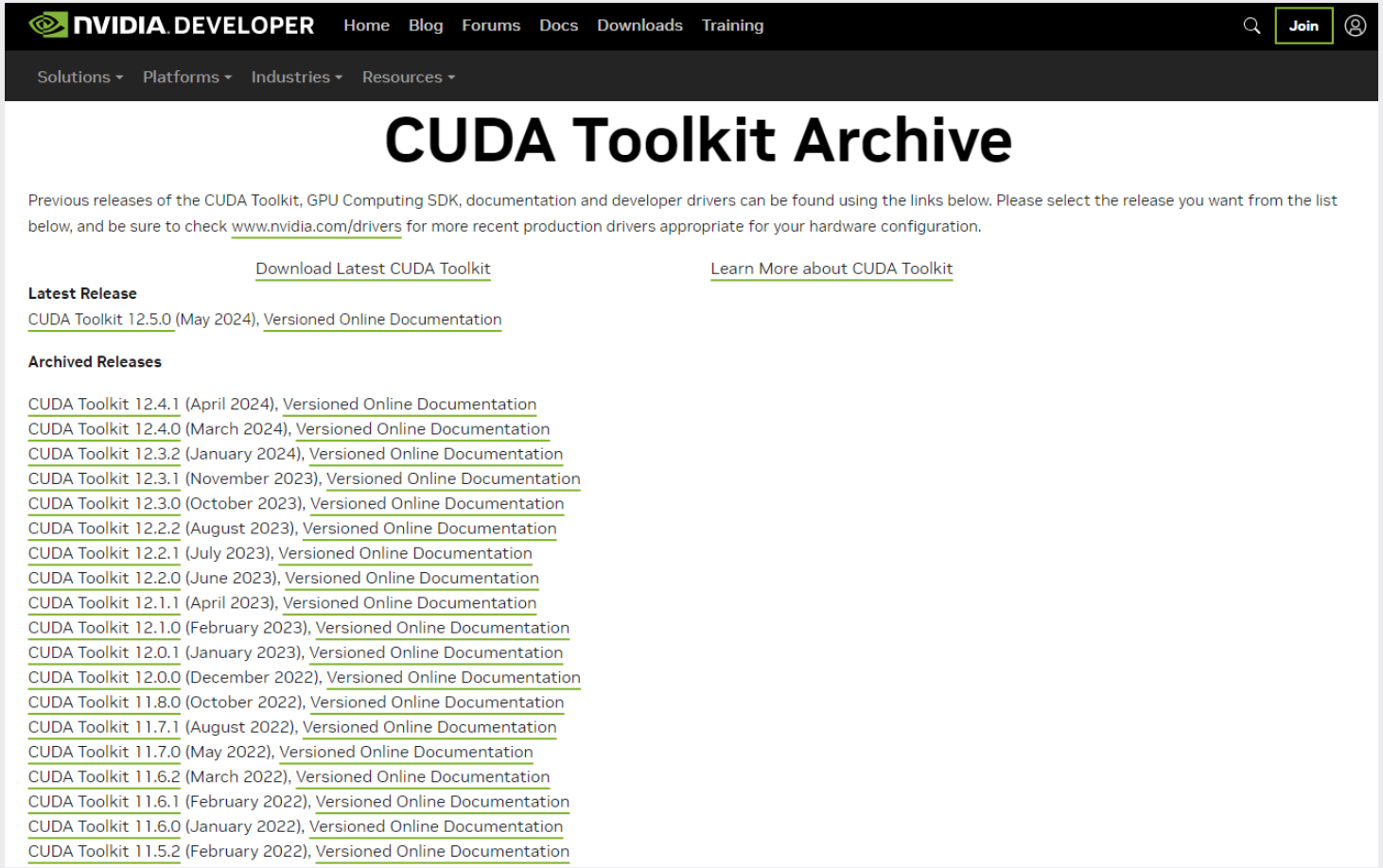
Environment set up

- NVIDIA CUDA Toolkit
- NVIDIA cuDNN
- Microsoft VC_redist.x64

NVIDIA CUDA Toolkit

Environment set up- NVIDIA CUDA Toolkit

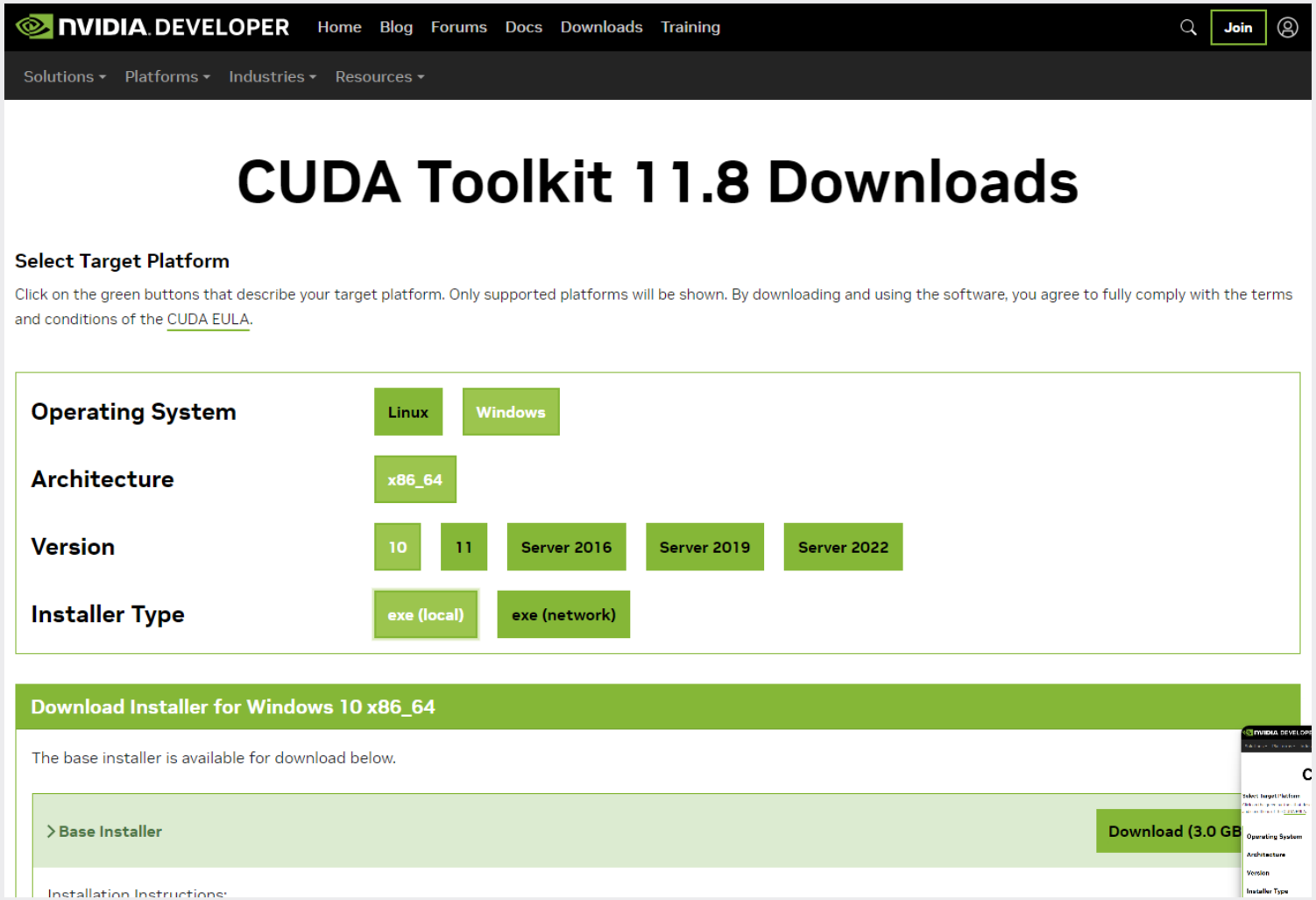
1. Go to the CUDA Toolkit Archive page on the official NVDIA website and look for CUDA Toolkit 11.8.0 and click to enter the page.



Ref：https://developer.nvidia.com/cuda-toolkit-archive

Environment set up- NVIDIA CUDA Toolkit

2. When you enter the download page, click Download CUDA **11.8.0**。

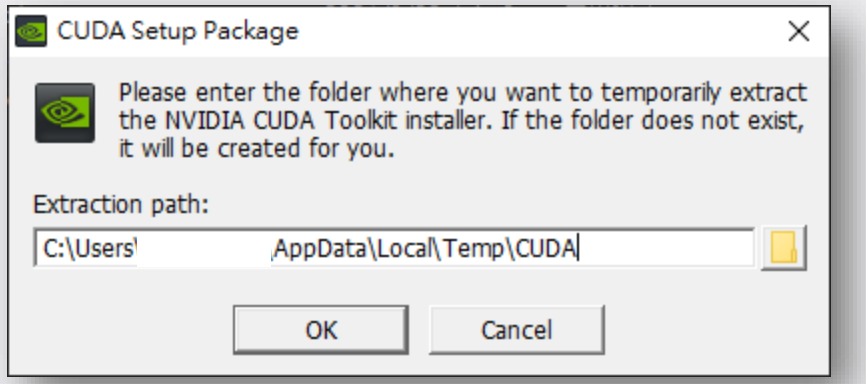


Ref: https://developer.nvidia.com/cuda-11.1.0-download-archive

Environment set up- NVIDIA CUDA Toolkit

3. After the installation package is download, click Start Installation.

4. Click OK directly to start decompression.

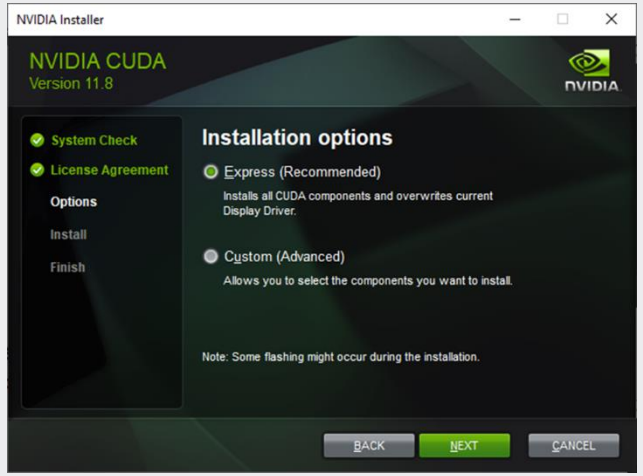


Environment set up- NVIDIA CUDA Toolkit

5. Click Agree and continue.

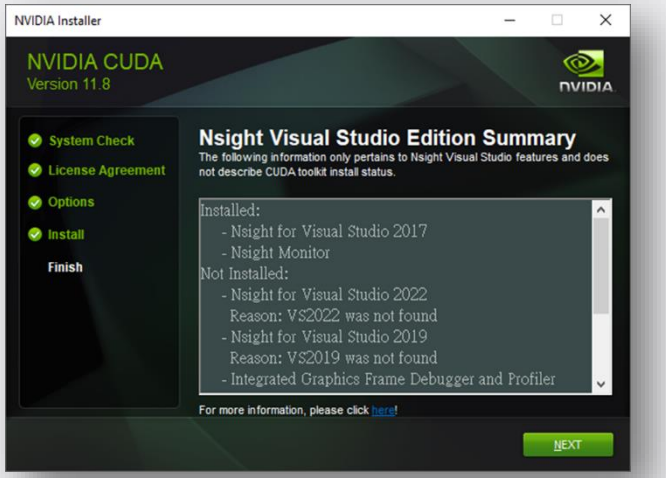
6. Select Quick and click Next to start the installation.

Tip: Please close visual Studio and other related IDEs when installing.

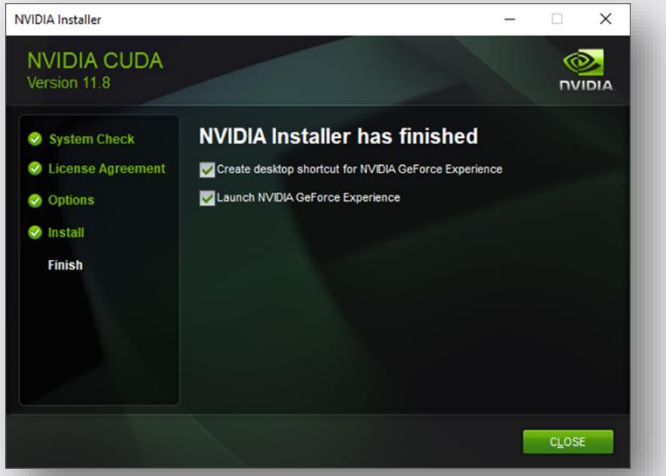


Environment set up- NVIDIA CUDA Toolkit

7. After installation, The summary will appear, click Next directly.



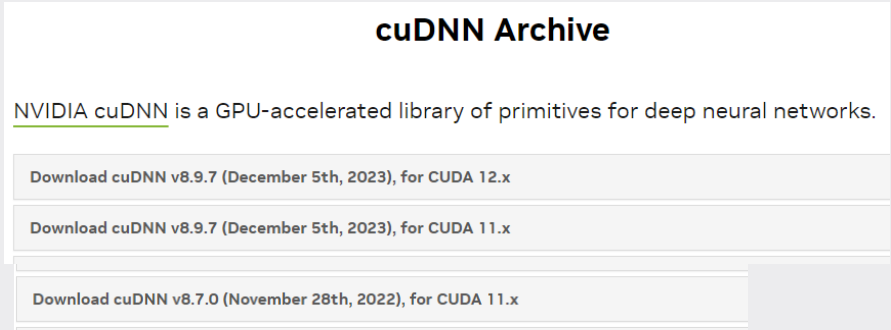
8. Click Close to complete the installation process for CUDA 11.8.



NVIDIA cuDNN

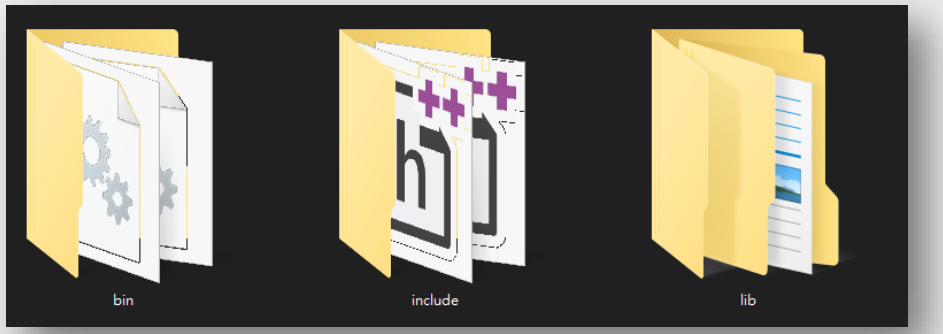
Environment set up- NVIDIA cuDNN

1. Download cudnn-8.7.0 for CUDA11.X version from NVIDIA website, and unzip.



Ref: https://developer.nvidia.com/rdp/cudnn-archive

2. After the unzipping CUDA folder, three folder files will be generated, ***'bin', 'include'*** and ***'lib'*.**



Environment set up- NVIDIA cuDNN

3. Move the files in the ***'bin', 'include'*** and ***'lib'*** folder to the other three folder with same name under ***'C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.8'*** to complete the cudnn installation.

The directories for migration can be referred to as follows:

cuDNN\bin goes to ***'C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.8\bin'***

cuDNN\include goes to ***'C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.8\include'***

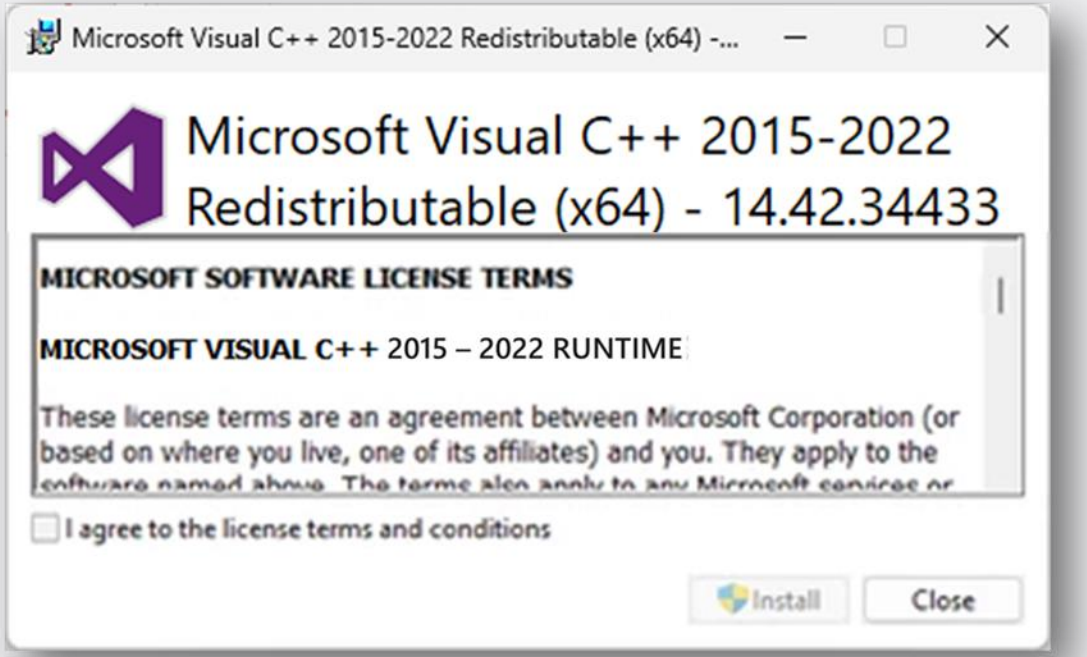
cuDNN\lib\x64 goes to ***'C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.8\lib\x64'***

Microsoft VC_redist.x64

Environment set up - Microsoft VC_redist.x64

1. Click VC_redist.x64.exe, check Agree to authorize and install.

   Tip: If installed, the installation will fail.



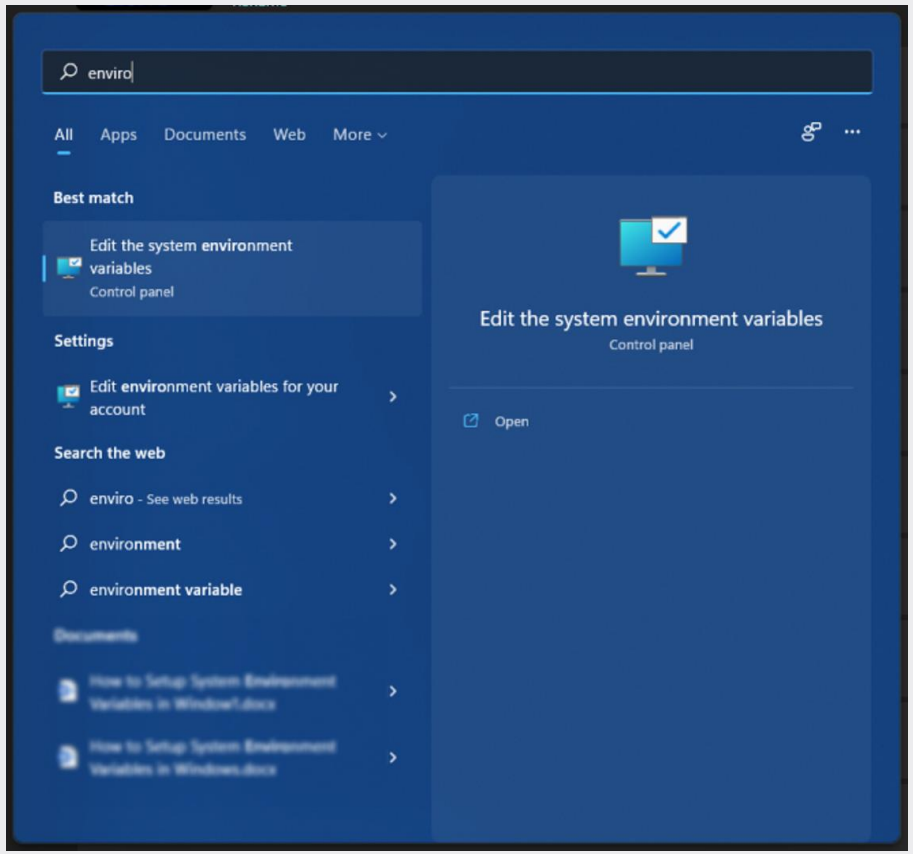
Environment variables setting

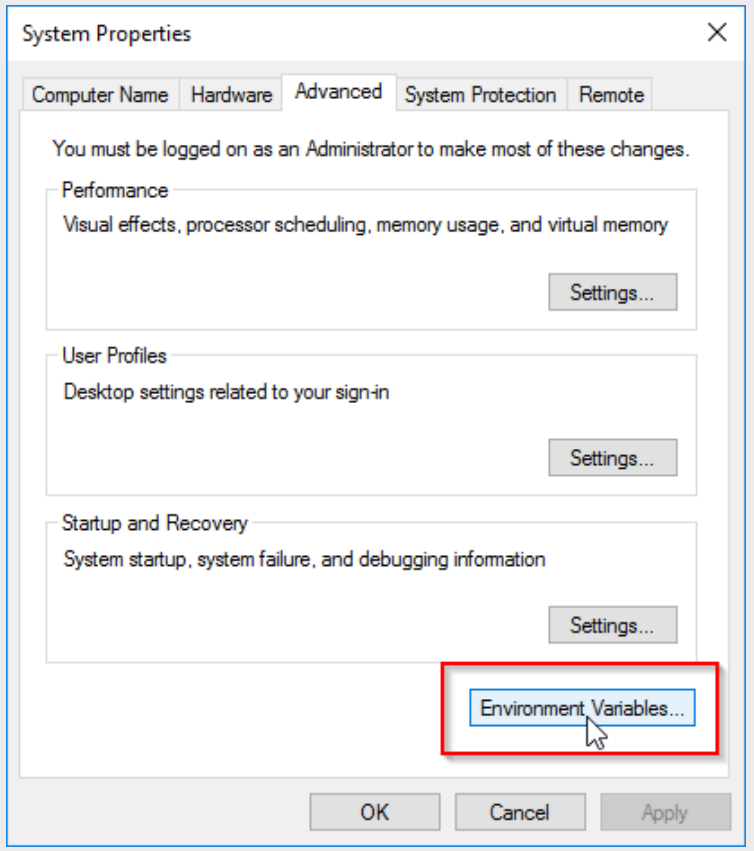
Exception Status Supplement

Environment variables setting

Exception Status Supplement

1. Search for “system environment variables”
2. Select ***Environment Variables***

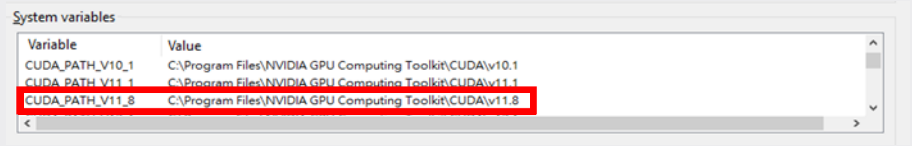




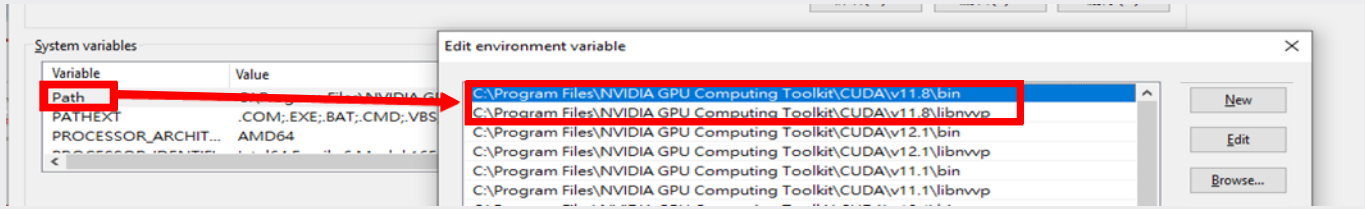
Environment variables setting

Exception Status Supplement

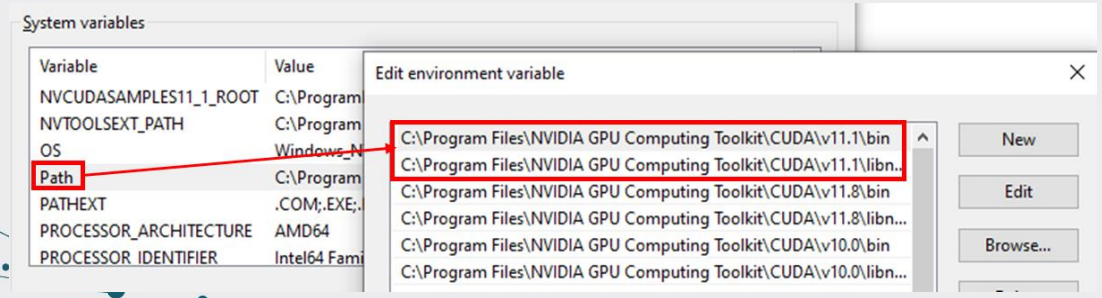
- If CUDA 11.8 has been correctly installed, please go to the system variables in the Environment Variables and check if the following parameters are successfully set:
  - Make sure that the environment variable CUDA_PATH_V11_8 exists.



  - Ensure that the ***'Path'*** environment variable includes the ***'bin'*** and ***'libnvvp'*** paths for CUDA 11.8.



- If the system needs to run an older version of AISVision, please ensure the following parameters are set:
  - Verify that the environment variable CUDA_PATH is set to the path of CUDA 11.1.
  - Ensure that the ***'Path'*** environment variable includes the ***'bin'*** and ***'libnvvp'*** paths for CUDA 11.1, and move them to the highest priority.

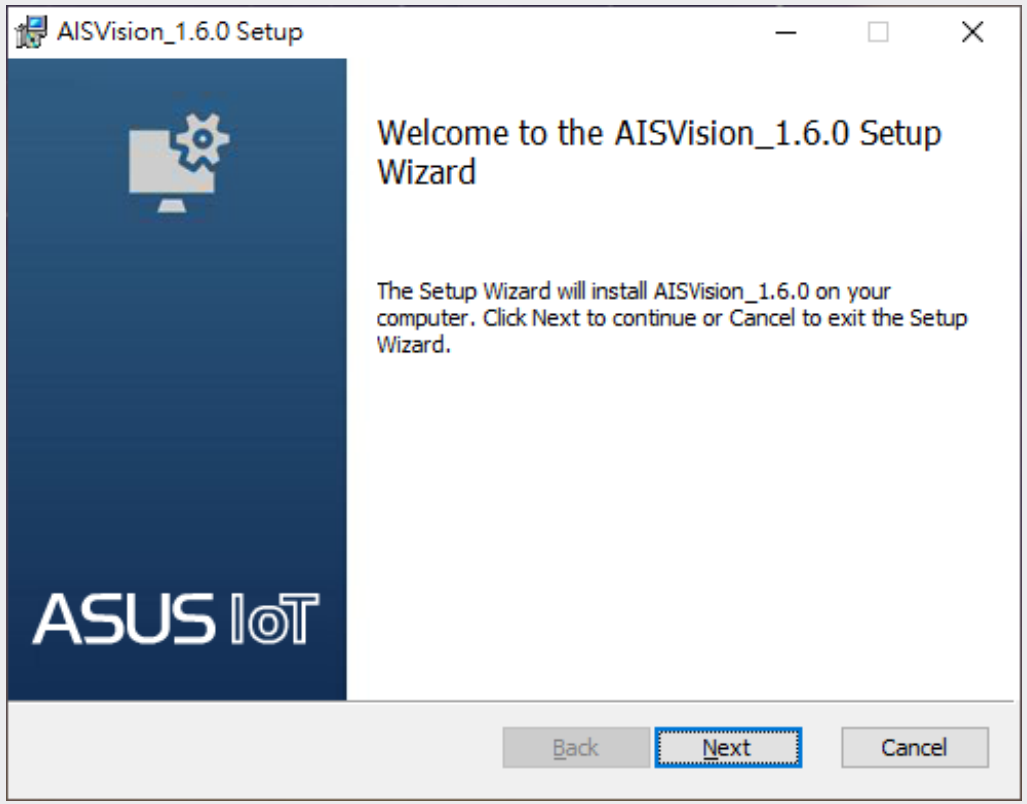


ASUS IoT

Install AISVision

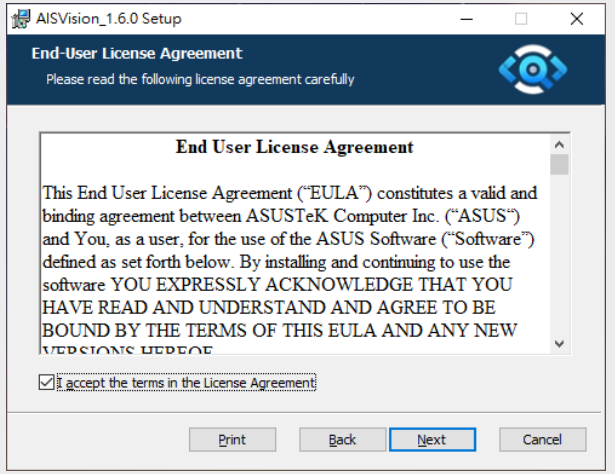
Install AISVision

1. Click the exe.
2. The installation screen appears, click next.

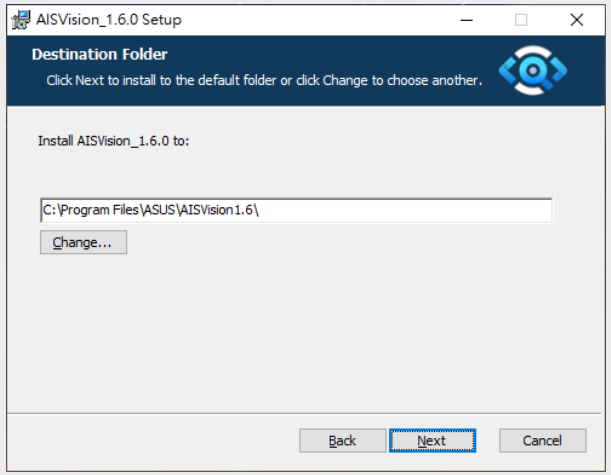


Install AISVision

3. Tick Accept License and click next.

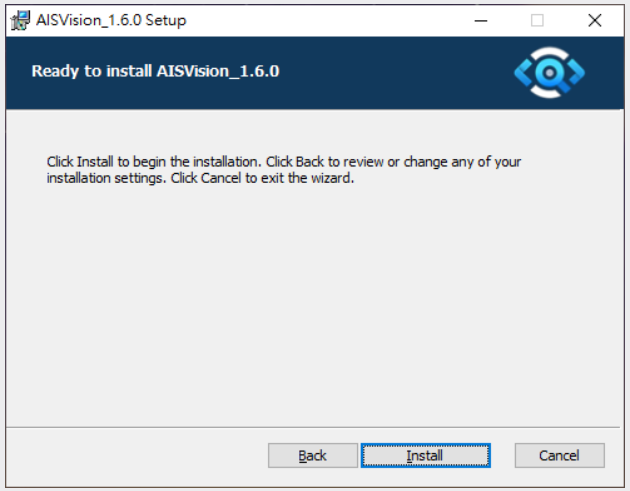


4. You can change the installation path or use the default path and click next.

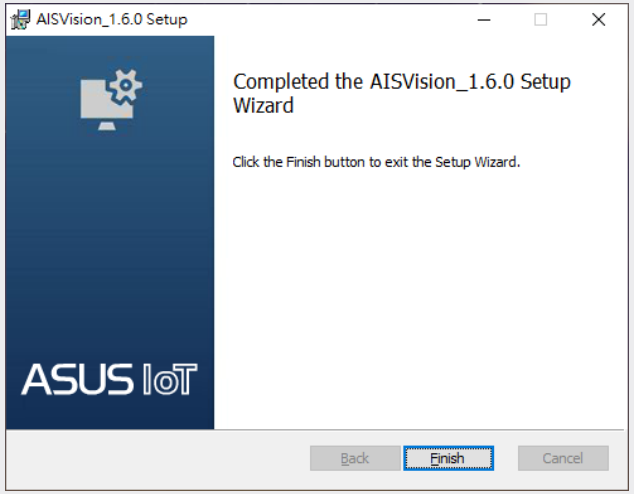


Install AISVision

5. Click install to start the installation.



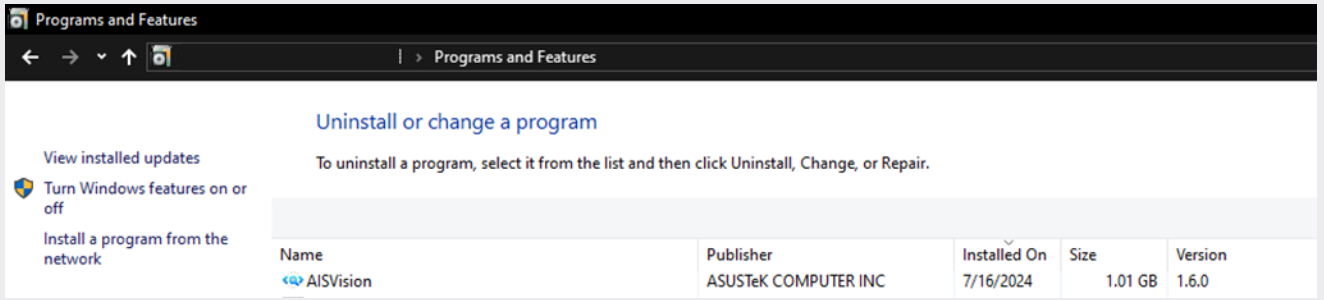
6. Click finish when the installation is complete.



Install AISVision

7. After installation, you can execute AISvision in the assembly or execute desktop shortcut runners.

Shortcut



Console – Main program information

ASUS IoT

Thank You !