

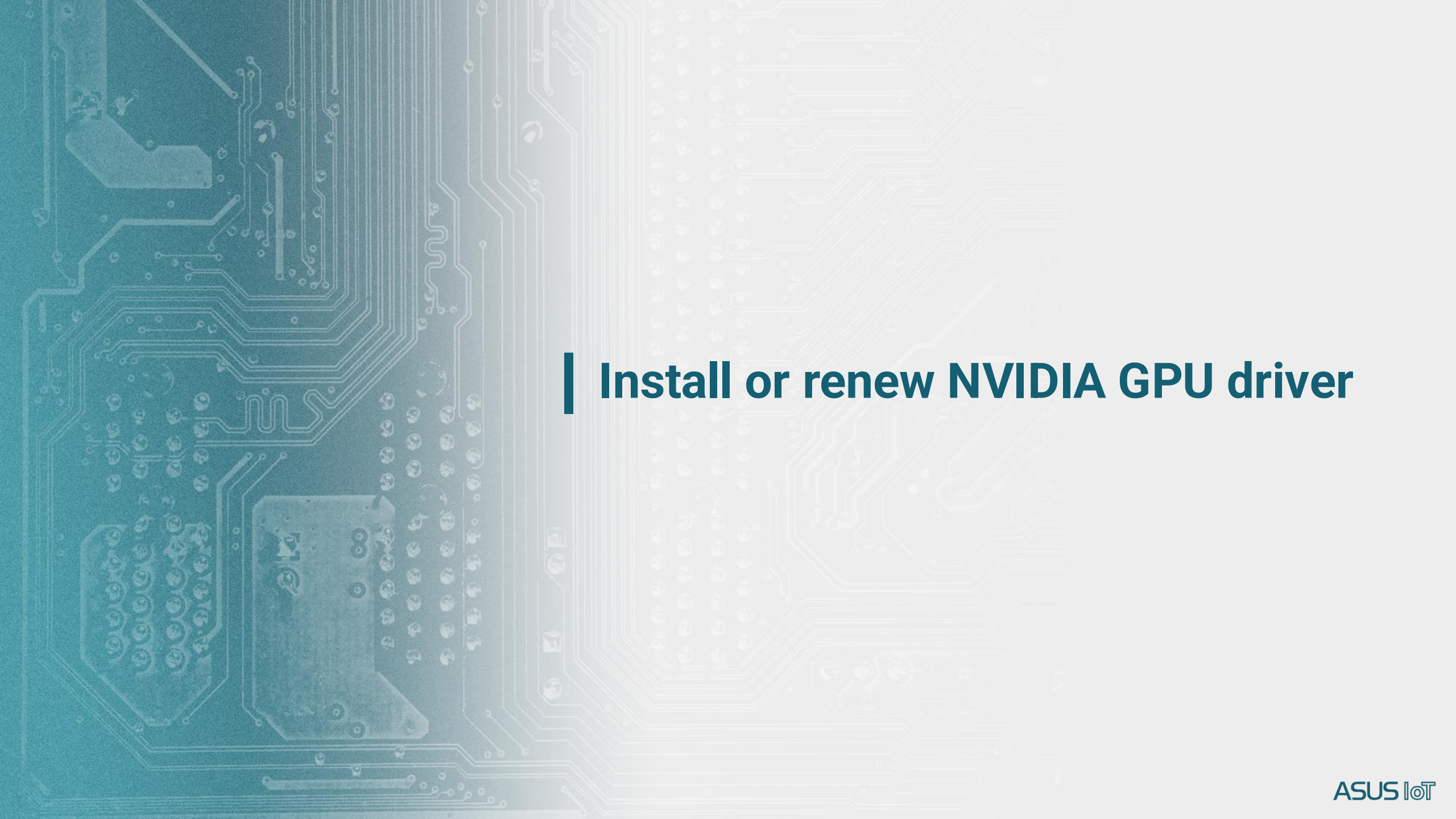
AISVision

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.

Manual Driver Search

Search all GeForce drivers by providing your system information.

Product Type:

GeForce

Product Series:

GeForce RTX 40 Series (Notebooks)

Product:

GeForce RTX 4090 Laptop GPU

Operating System:

Windows 10 64-bit

Language:

English (US)

Download Type:

All

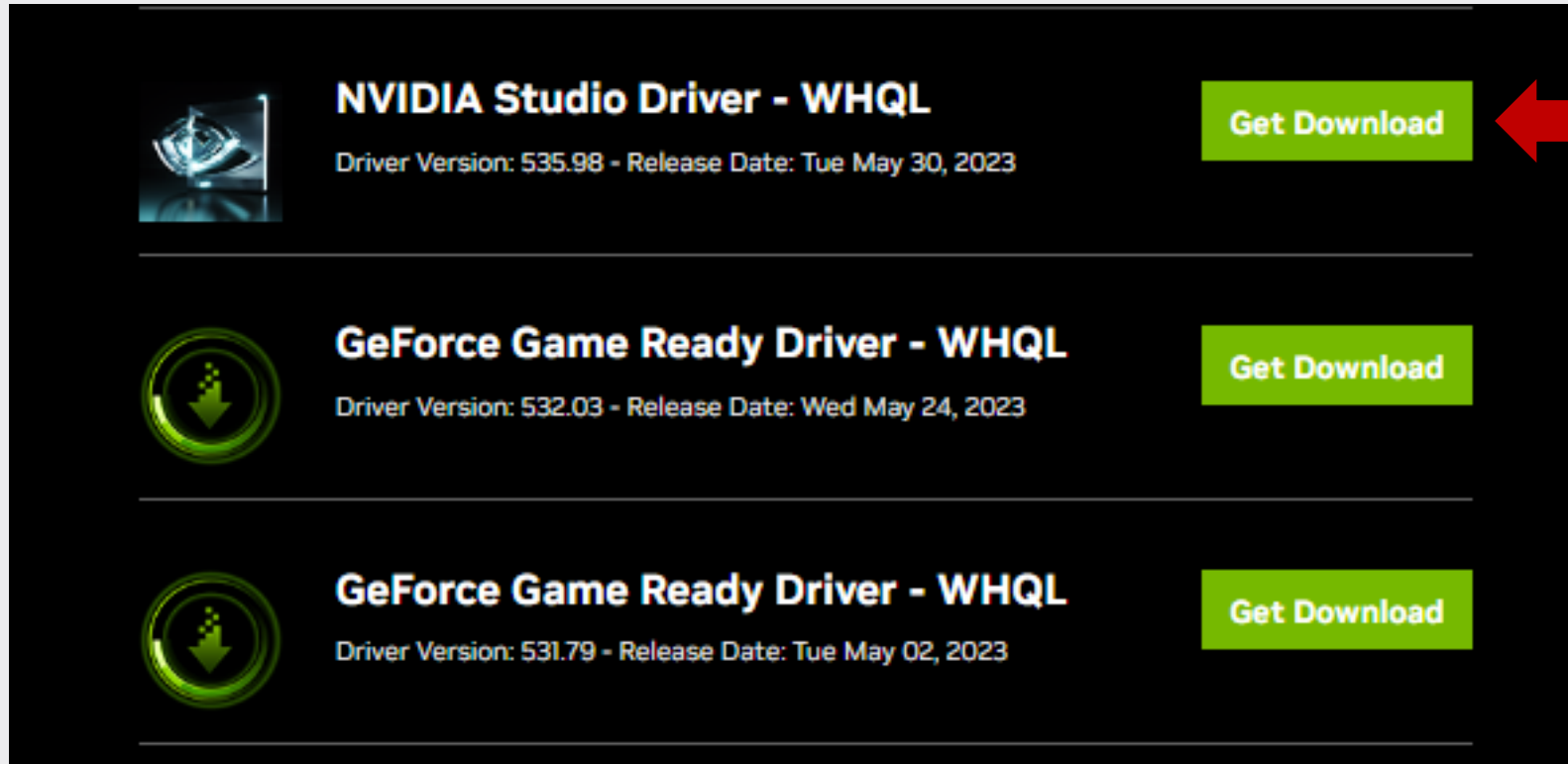
Start Search

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.

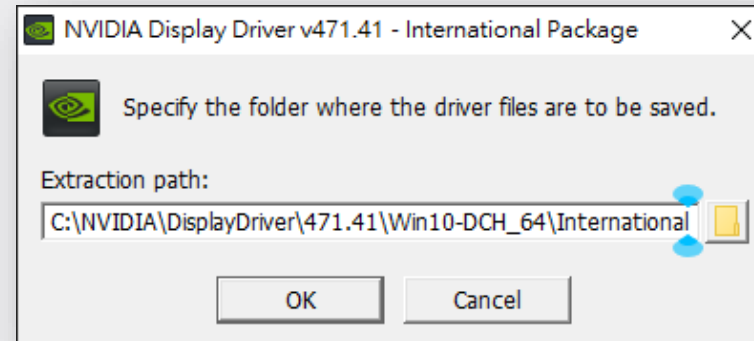
Check location: Windows Settings→Application→Search for “NVIDIA” →Look for “ NVIDIA Graphics Driver” and check the version number.



	NVIDIA Studio Driver - WHQL Driver Version: 535.98 - Release Date: Tue May 30, 2023	Get Download
	GeForce Game Ready Driver - WHQL Driver Version: 532.03 - Release Date: Wed May 24, 2023	Get Download
	GeForce Game Ready Driver - WHQL Driver Version: 531.79 - Release Date: Tue May 02, 2023	Get Download

Install or renew NVIDIA GPU driver

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

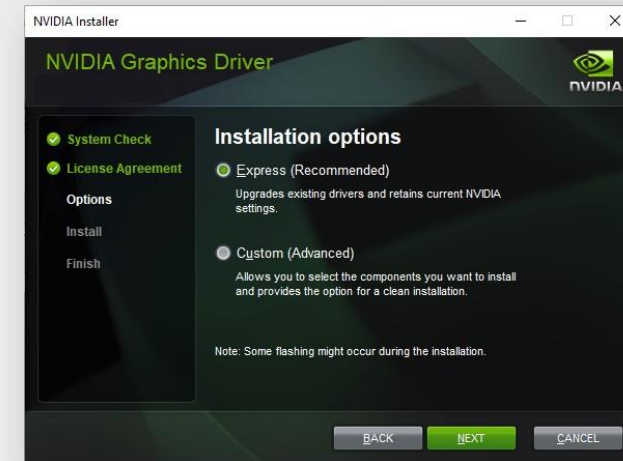


5. Select the graphics driver, click Agree and Continue.

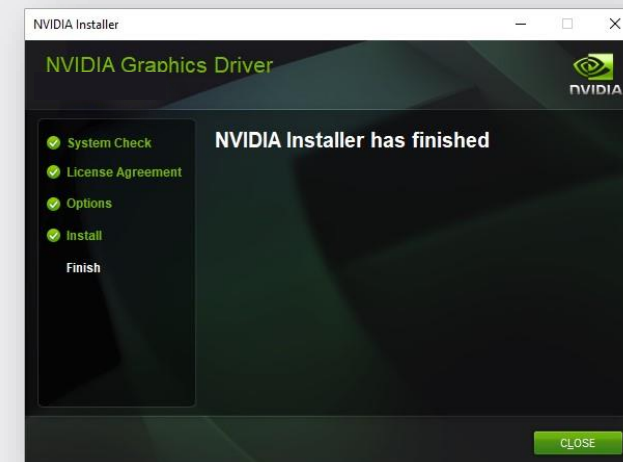


Install or renew NVIDIA GPU driver

6. Select Quick Install and click Next Installation



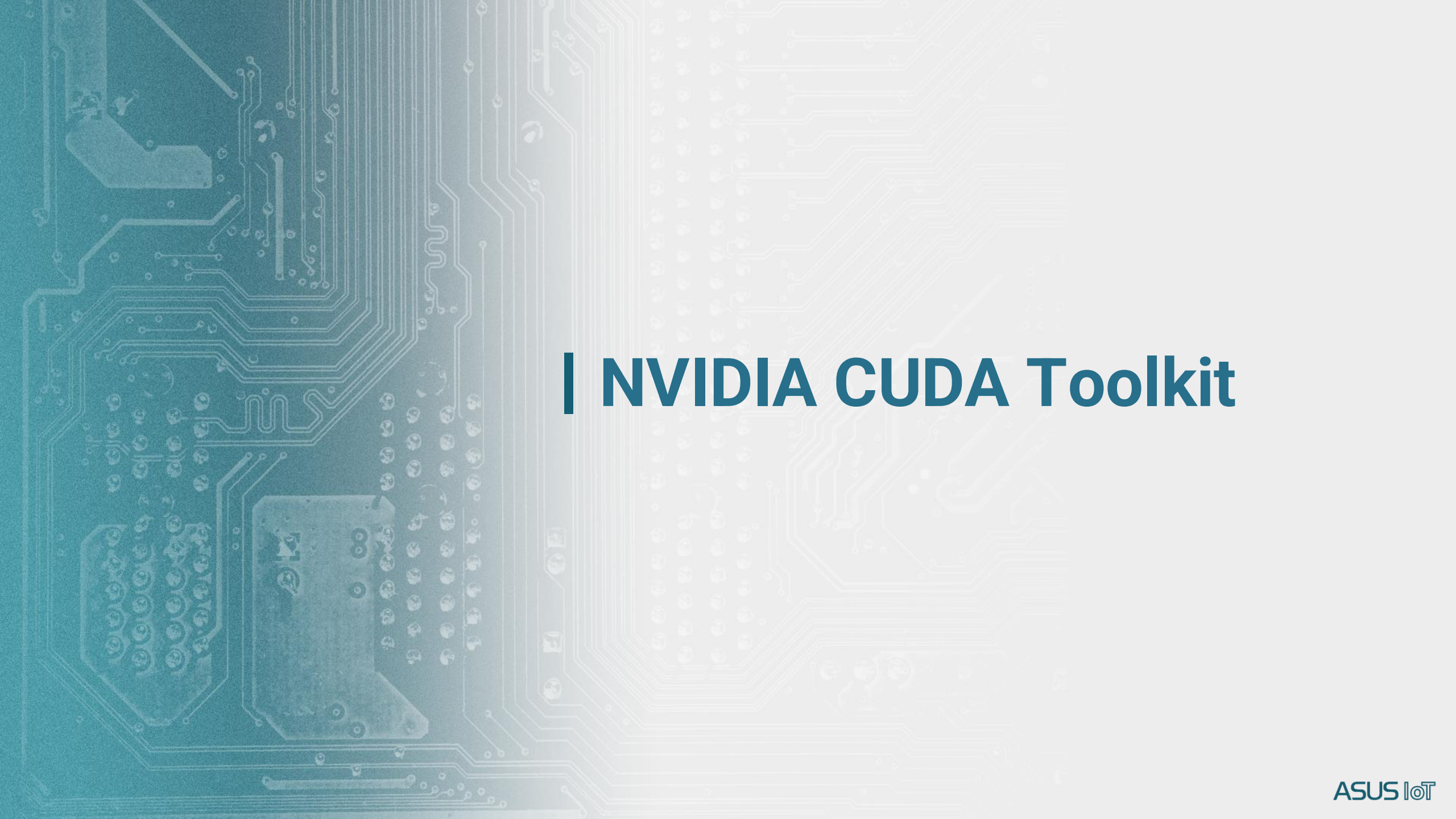
7. Wait for the installer to finish shutting down.





| Environment set up

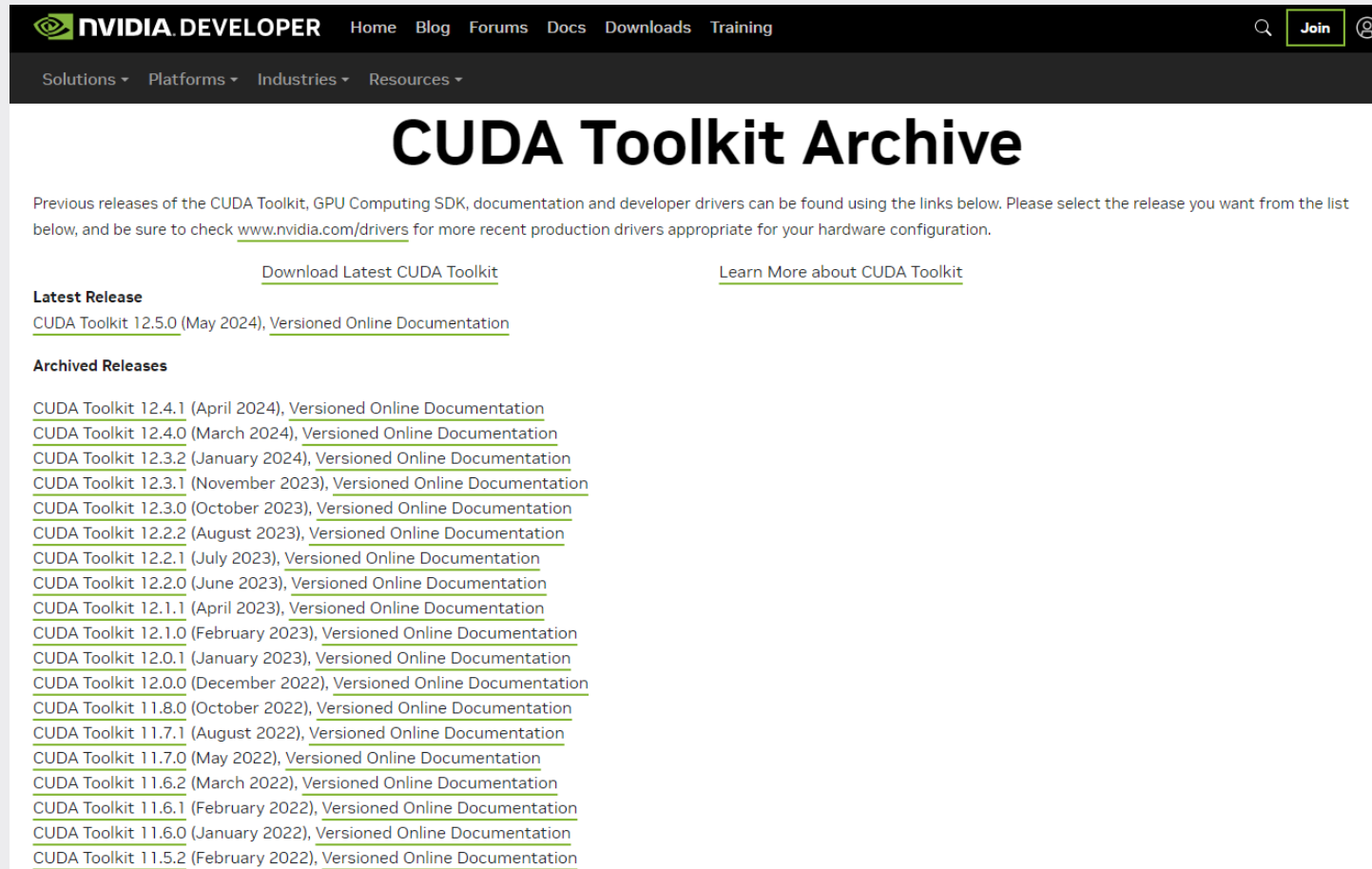
- NVIDIA CUDA Toolkit
- NVIDIA cuDNN
- Microsoft VC_redist.x64



| NVIDIA CUDA Toolkit

Environment set up- NVIDIA CUDA Toolkit

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



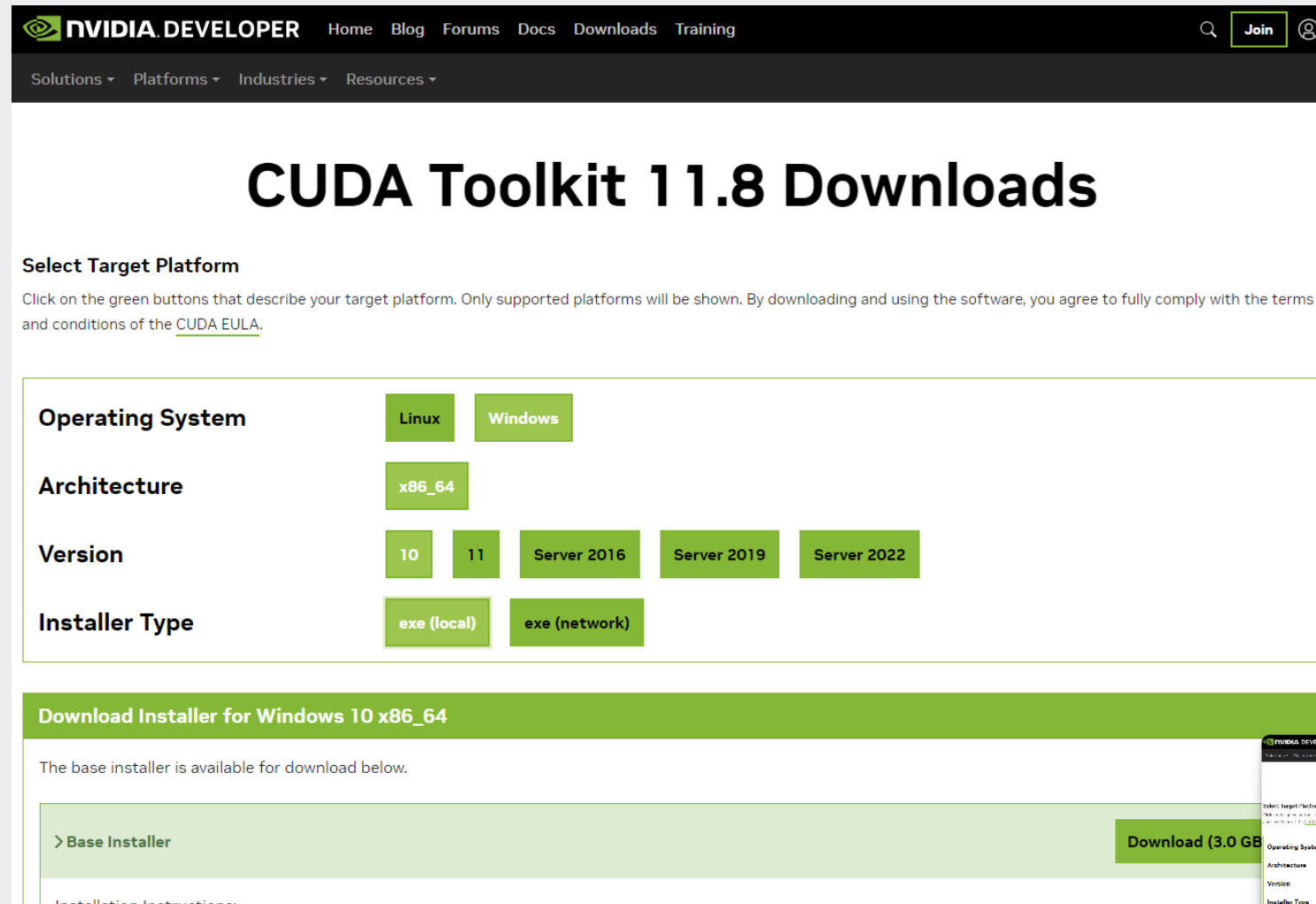
The screenshot shows the NVIDIA Developer website's CUDA Toolkit Archive page. The header includes the NVIDIA Developer logo and navigation links: Home, Blog, Forums, Docs, Downloads, and Training. A search icon and a 'Join' button are also present. Below the header, there are dropdown menus for Solutions, Platforms, Industries, and Resources. The main heading is 'CUDA Toolkit Archive'. A paragraph explains that previous releases of the CUDA Toolkit, GPU Computing SDK, documentation, and developer drivers can be found using the links below, and advises checking www.nvidia.com/drivers for more recent production drivers. Two links are provided: 'Download Latest CUDA Toolkit' and 'Learn More about CUDA Toolkit'. Under 'Latest Release', it lists 'CUDA Toolkit 12.5.0 (May 2024)' with a link to 'Versioned Online Documentation'. Under 'Archived Releases', a list of previous versions is provided, each with a link to its 'Versioned Online Documentation':

- CUDA Toolkit 12.4.1 (April 2024), Versioned Online Documentation
- CUDA Toolkit 12.4.0 (March 2024), Versioned Online Documentation
- CUDA Toolkit 12.3.2 (January 2024), Versioned Online Documentation
- CUDA Toolkit 12.3.1 (November 2023), Versioned Online Documentation
- CUDA Toolkit 12.3.0 (October 2023), Versioned Online Documentation
- CUDA Toolkit 12.2.2 (August 2023), Versioned Online Documentation
- CUDA Toolkit 12.2.1 (July 2023), Versioned Online Documentation
- CUDA Toolkit 12.2.0 (June 2023), Versioned Online Documentation
- CUDA Toolkit 12.1.1 (April 2023), Versioned Online Documentation
- CUDA Toolkit 12.1.0 (February 2023), Versioned Online Documentation
- CUDA Toolkit 12.0.1 (January 2023), Versioned Online Documentation
- CUDA Toolkit 12.0.0 (December 2022), Versioned Online Documentation
- CUDA Toolkit 11.8.0 (October 2022), Versioned Online Documentation
- CUDA Toolkit 11.7.1 (August 2022), Versioned Online Documentation
- CUDA Toolkit 11.7.0 (May 2022), Versioned Online Documentation
- CUDA Toolkit 11.6.2 (March 2022), Versioned Online Documentation
- CUDA Toolkit 11.6.1 (February 2022), Versioned Online Documentation
- CUDA Toolkit 11.6.0 (January 2022), Versioned Online Documentation
- CUDA Toolkit 11.5.2 (February 2022), Versioned Online Documentation

[Ref : https://developer.nvidia.com/cuda-toolkit-archive](https://developer.nvidia.com/cuda-toolkit-archive)

Environment set up- NVIDIA CUDA Toolkit

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



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Solutions ▾ Platforms ▾ Industries ▾ Resources ▾

CUDA Toolkit 11.8 Downloads

Select Target Platform

Click on the green buttons that describe your target platform. Only supported platforms will be shown. By downloading and using the software, you agree to fully comply with the terms and conditions of the [CUDA EULA](#).

Operating System	Linux	Windows			
Architecture	x86_64				
Version	10	11	Server 2016	Server 2019	Server 2022
Installer Type	exe (local)	exe (network)			

Download Installer for Windows 10 x86_64

The base installer is available for download below.

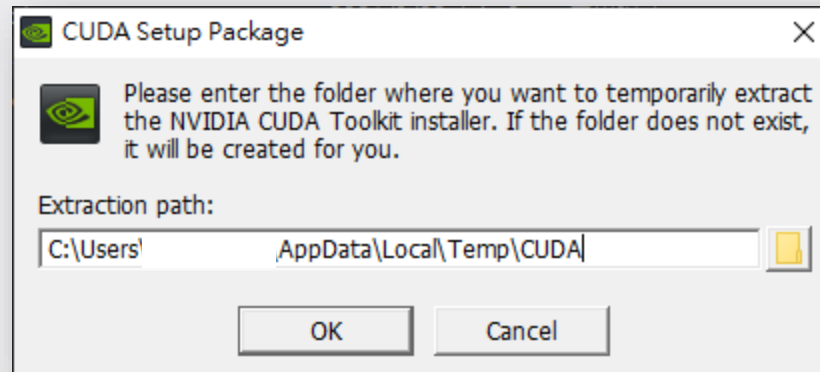
> Base Installer	Download (3.0 GB)
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Installation Instructions:

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

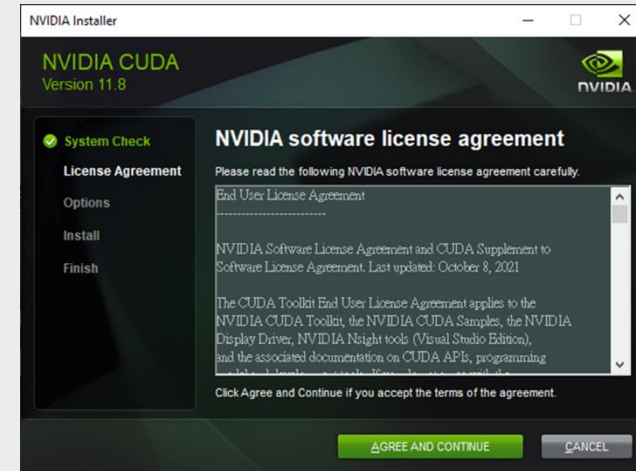
Environment set up- NVIDIA CUDA Toolkit

3. After the installation package is download, click Start Installation.
4. Click OK directly to start decompression.



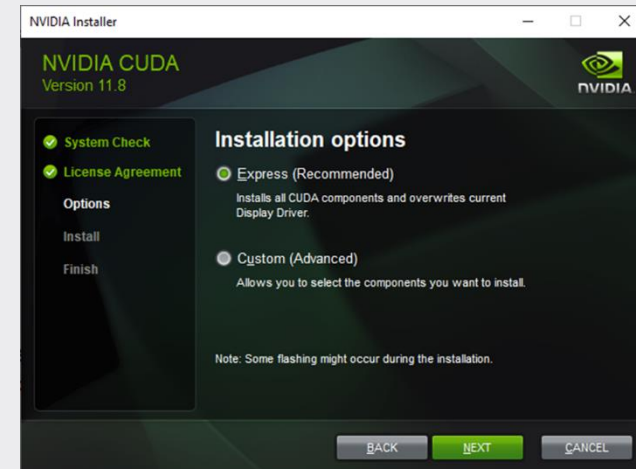
Environment set up- NVIDIA CUDA Toolkit

5. Click Agree and continue.



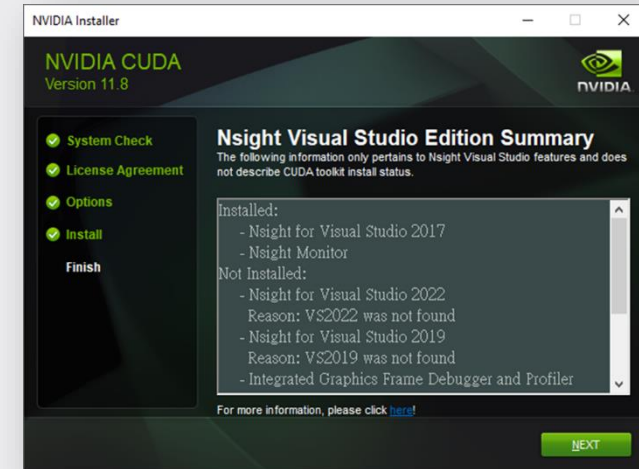
6. Select Quick and click Next to start the installation.

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

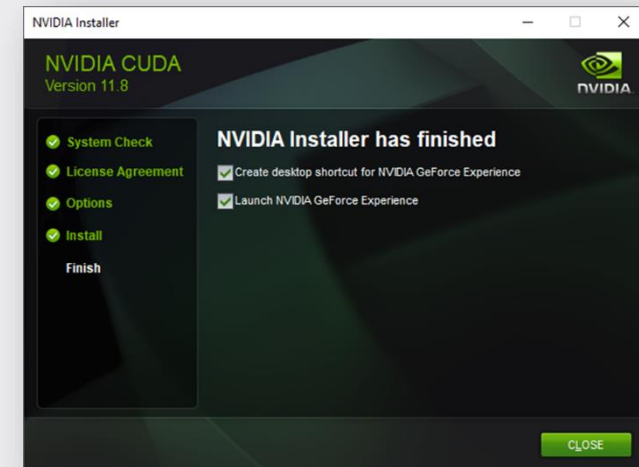


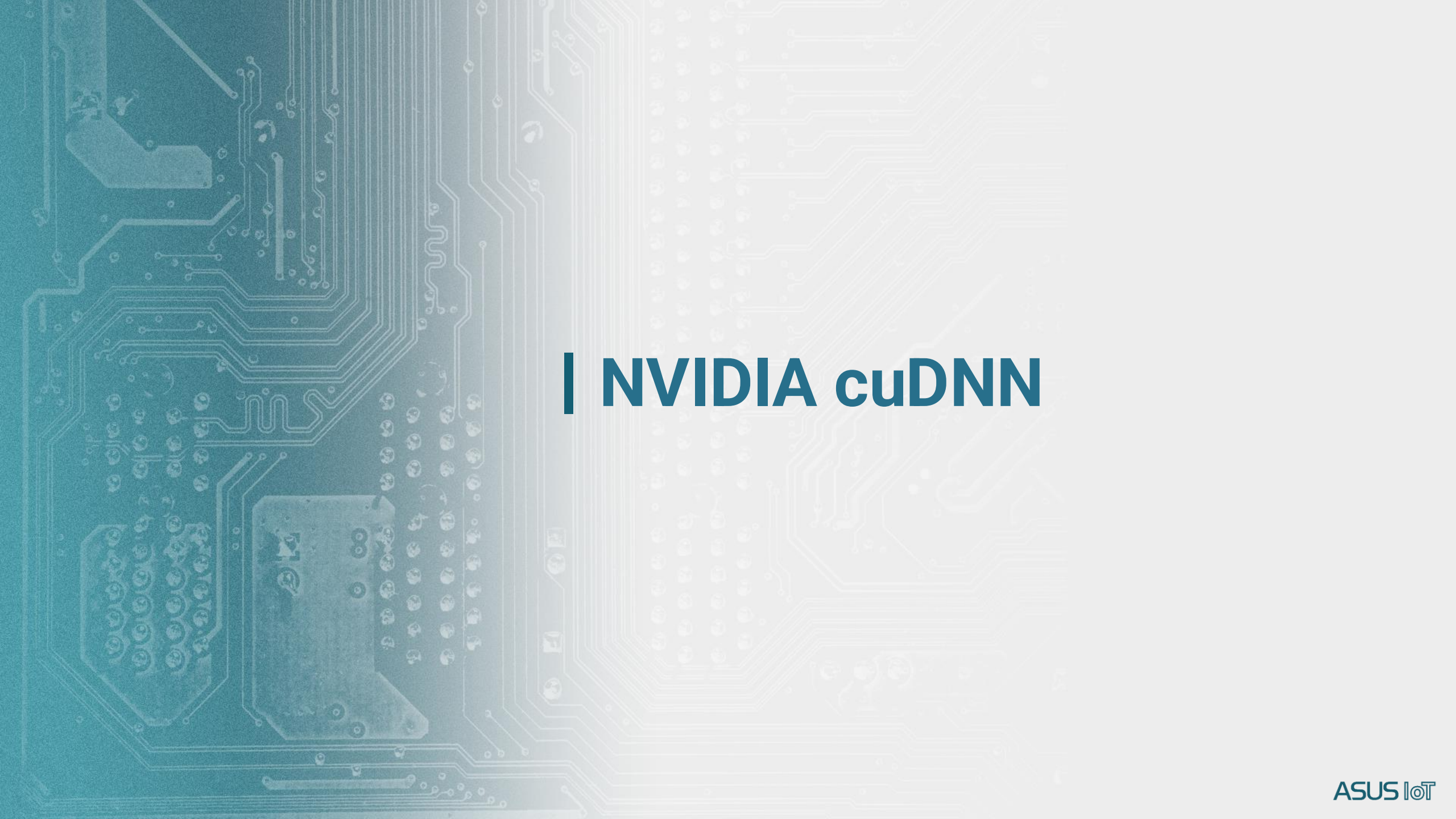
Environment set up- NVIDIA CUDA Toolkit

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



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

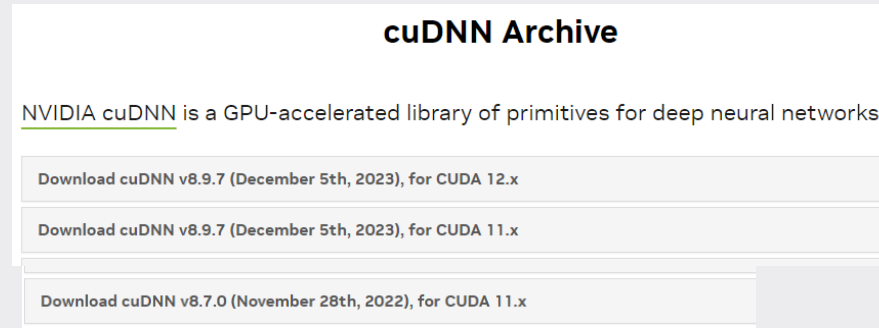




| NVIDIA cuDNN

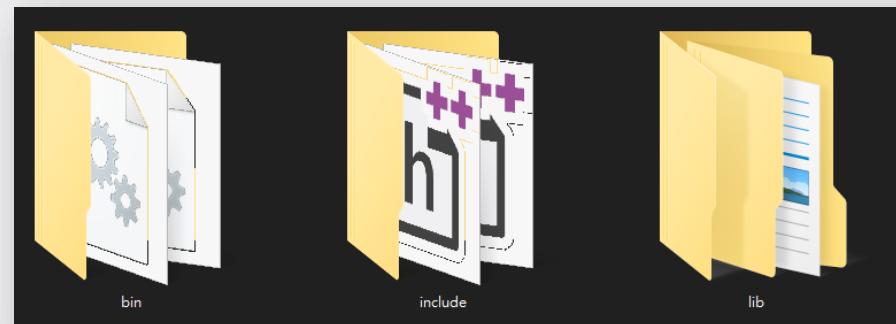
Environment set up- NVIDIA cuDNN

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

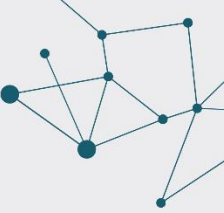


[Ref: https://developer.nvidia.com/rdp/cudnn-archive](https://developer.nvidia.com/rdp/cudnn-archive)

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.

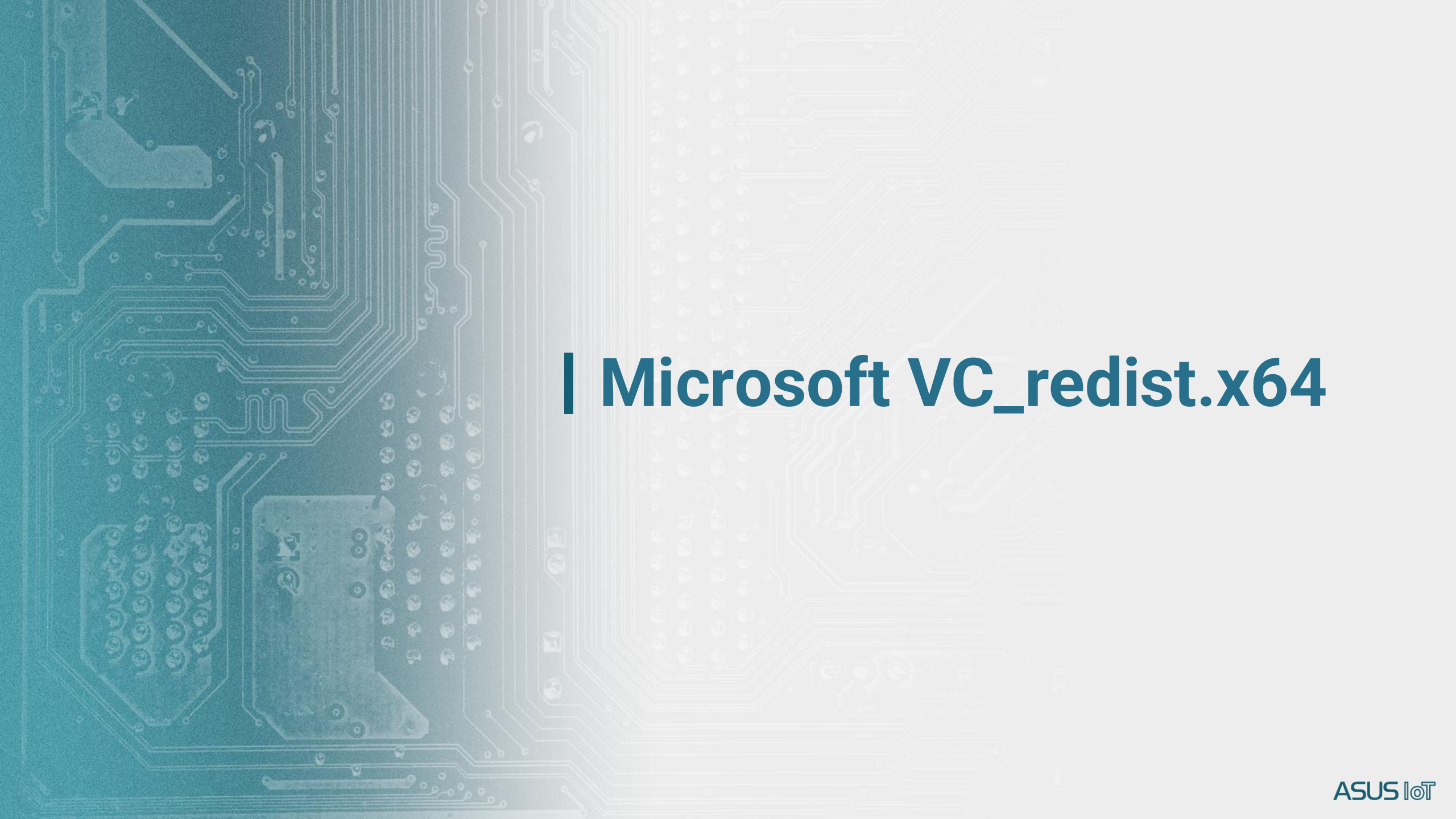
The directories for migration can be referred to as follows:

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'**



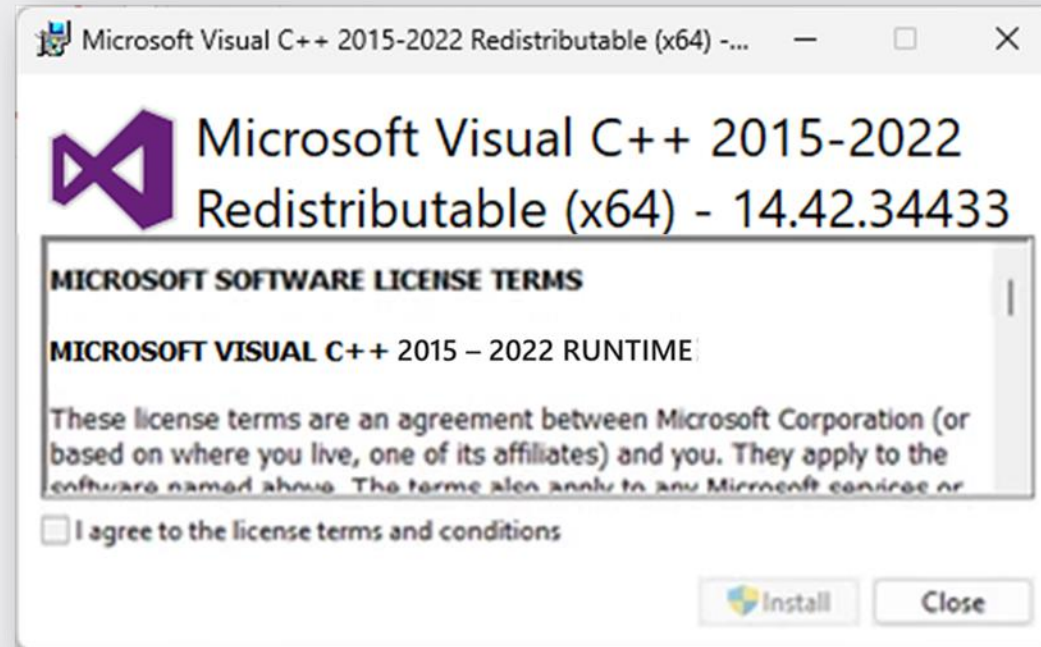


| Microsoft VC_redist.x64

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.





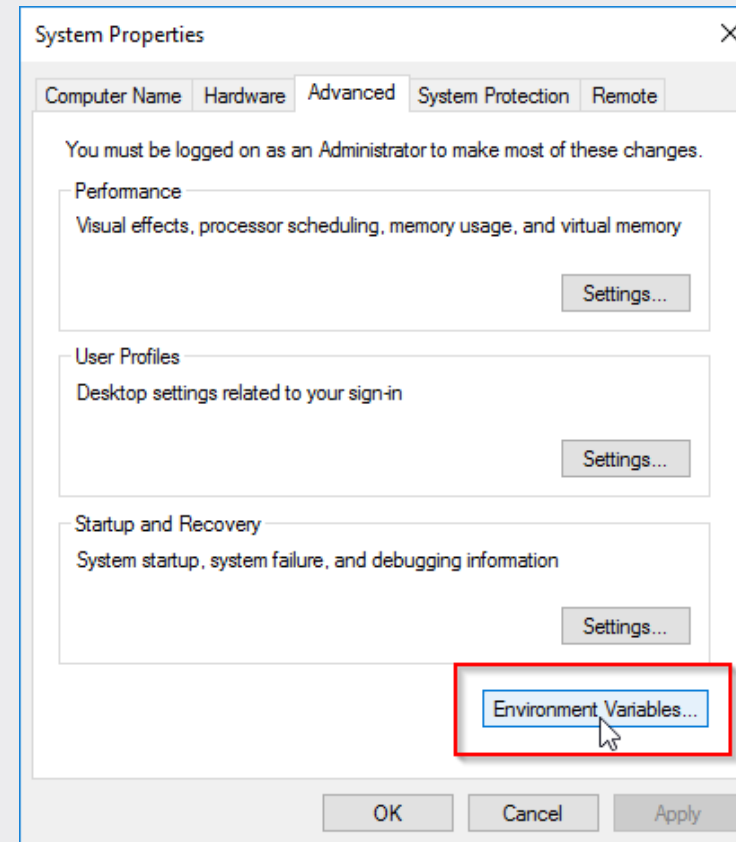
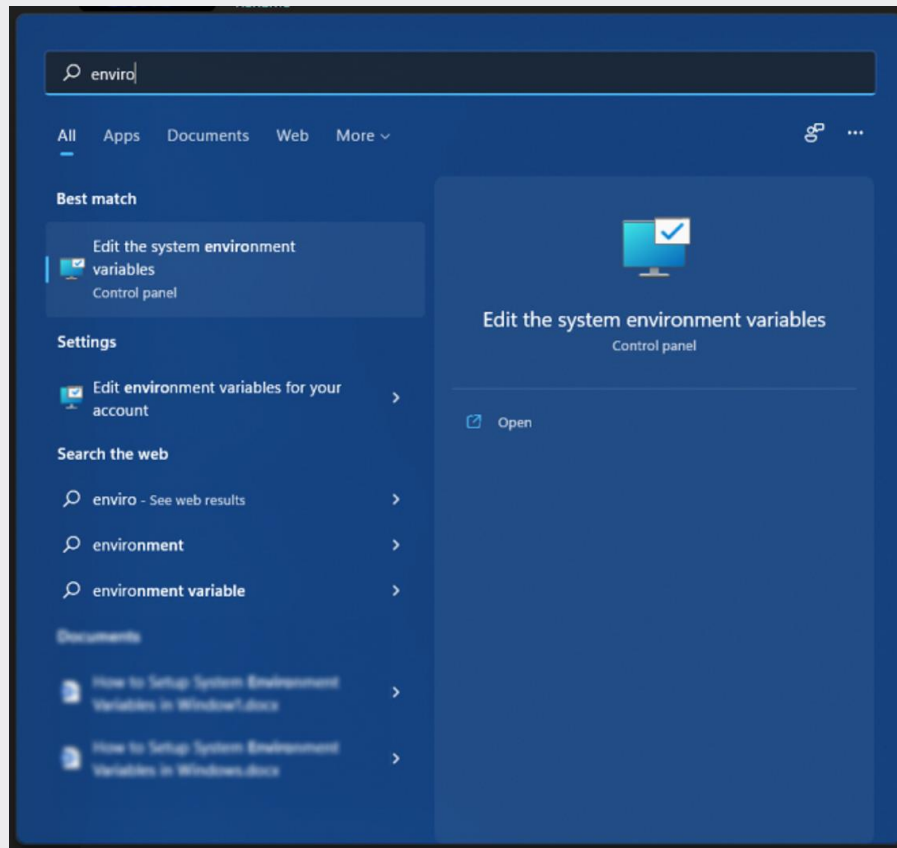
| Environment variables setting

Exception Status Supplement

Environment variables setting

Exception Status Supplement

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

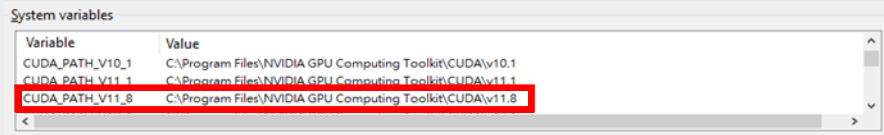


Environment variables setting

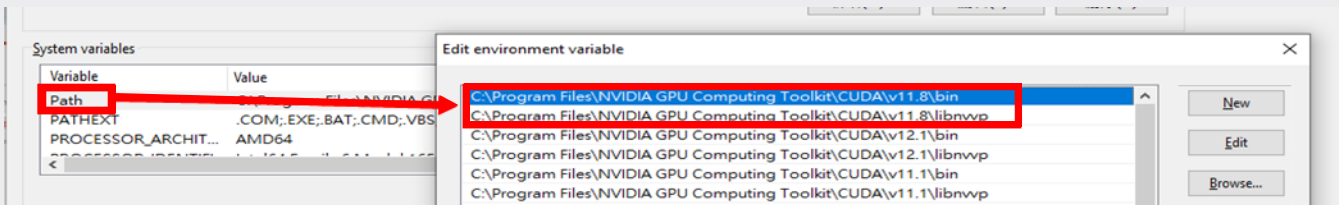
Exception Status Supplement

- 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.

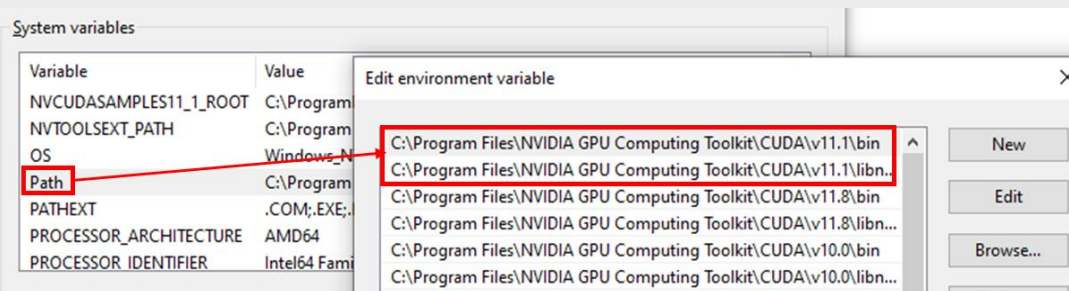


- Ensure that the '**Path**' environment variable includes the '**bin**' and '**libnvvp**' paths for CUDA 11.8.



- 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.

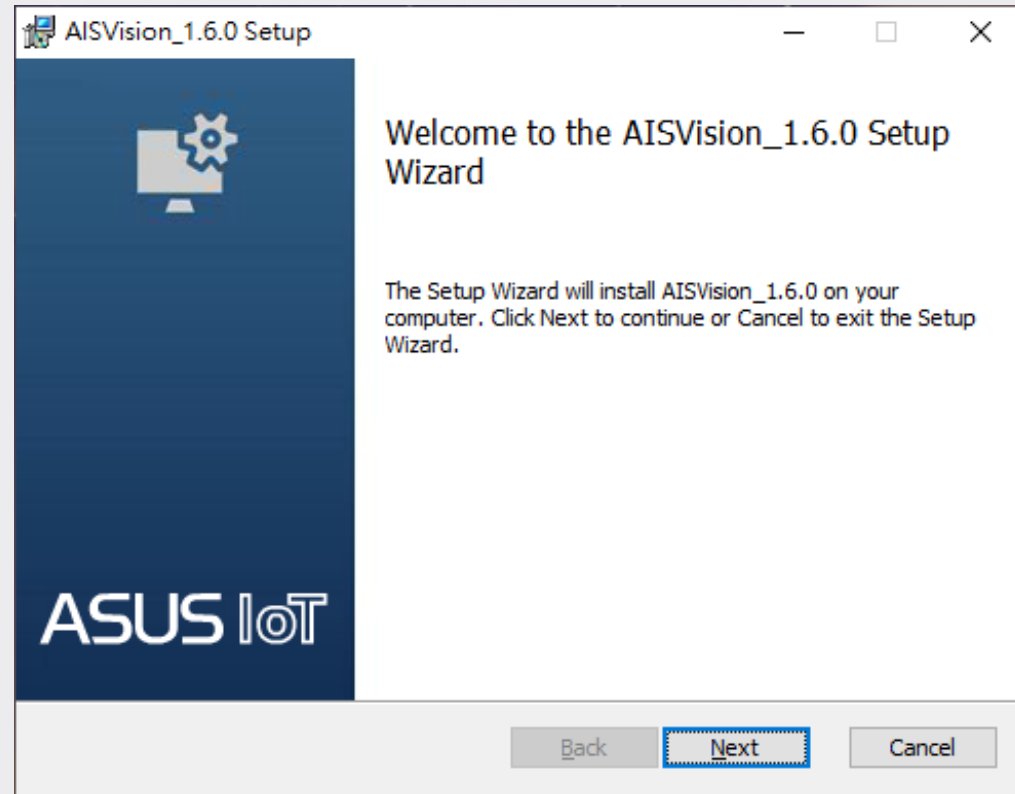




| Install AISVision

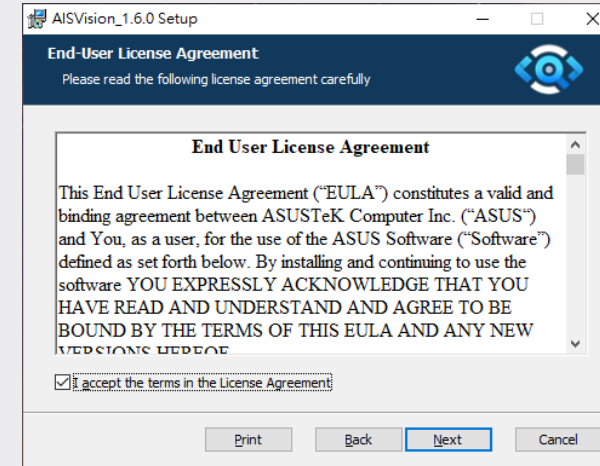
Install AISVision

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

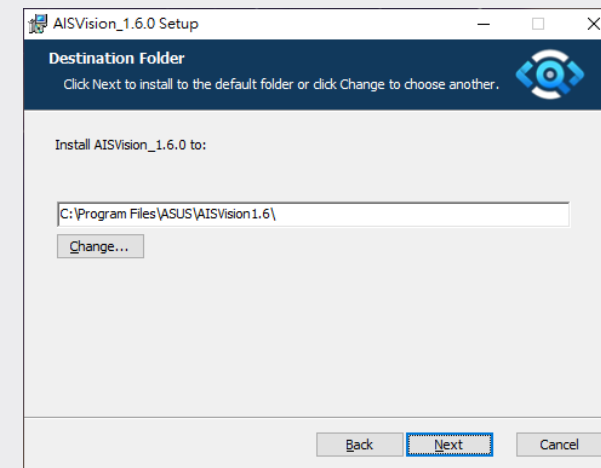


Install AISVision

3. Tick Accept License and click next.

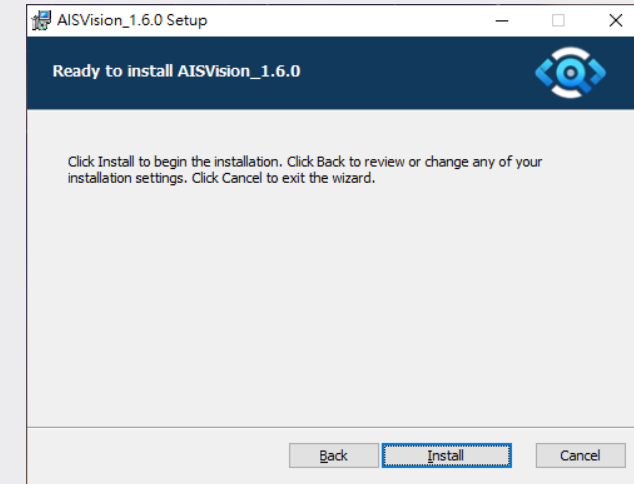


4. You can change the installation path or use the default path and click next.

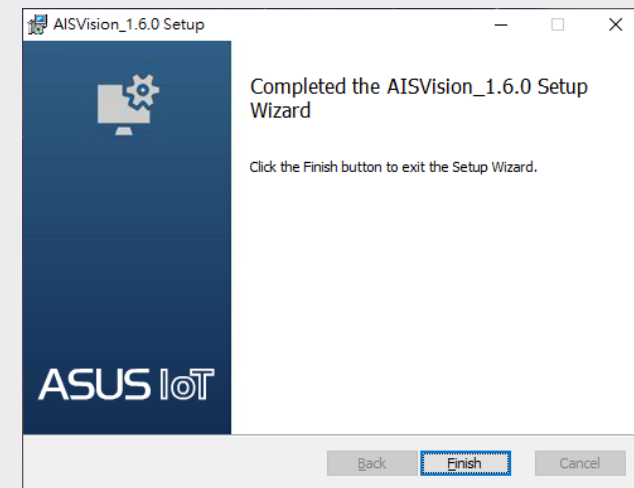


Install AISVision

5. Click install to start the installation.

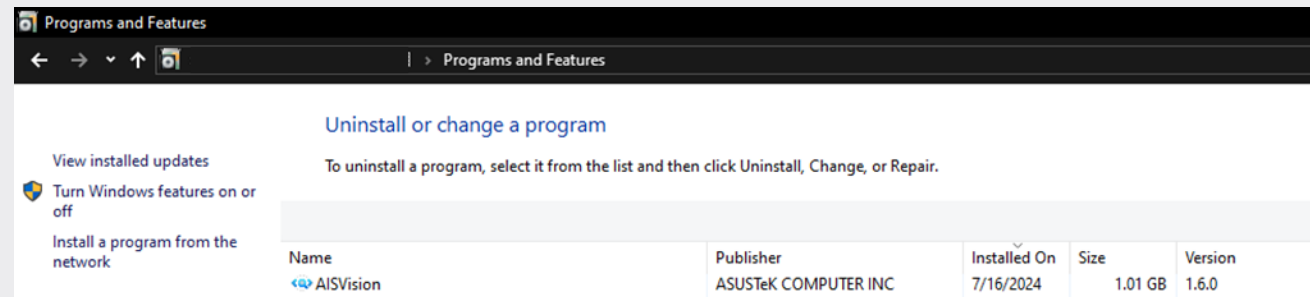
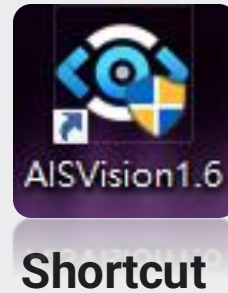


6. Click finish when the installation is complete.



Install AISVision

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



Console – Main program information

Thank
You !

