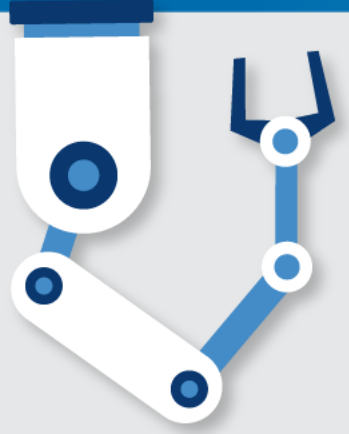
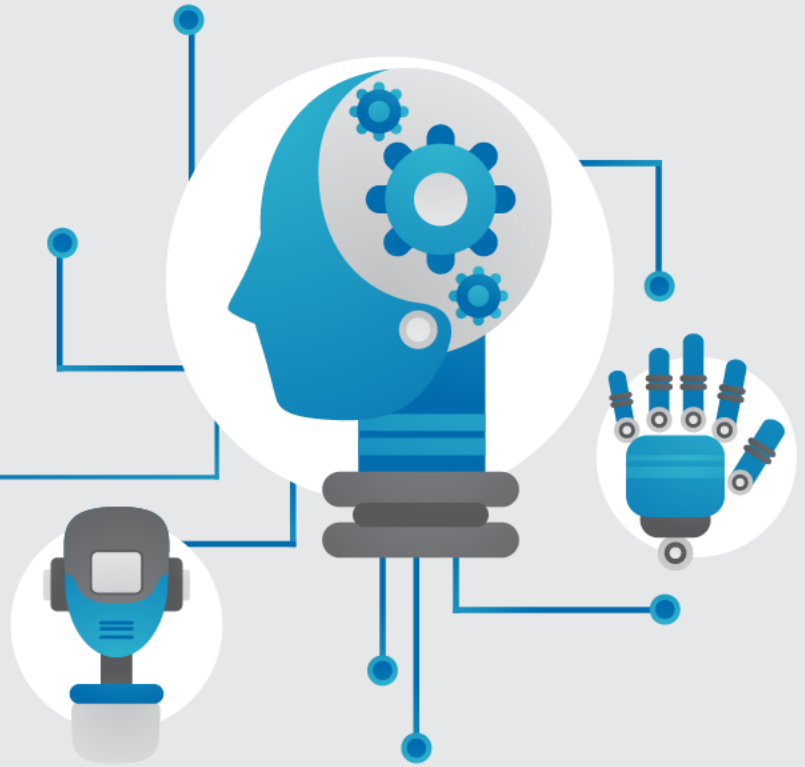


Python程式開發環境安裝與設定



Anaconda

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Anaconda 2019.10 for Windows Installer

Python 3.7 version

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Python 2.7 version

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GPU support

NVIDIA® GPU card with CUDA® Compute Capability 3.5 or higher.

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
NVIDIA TITAN Xp	6.1
NVIDIA TITAN X	6.1
GeForce GTX 1080 Ti	6.1
GeForce GTX 1080	6.1
GeForce GTX 1070	6.1

GPU運算相關軟體

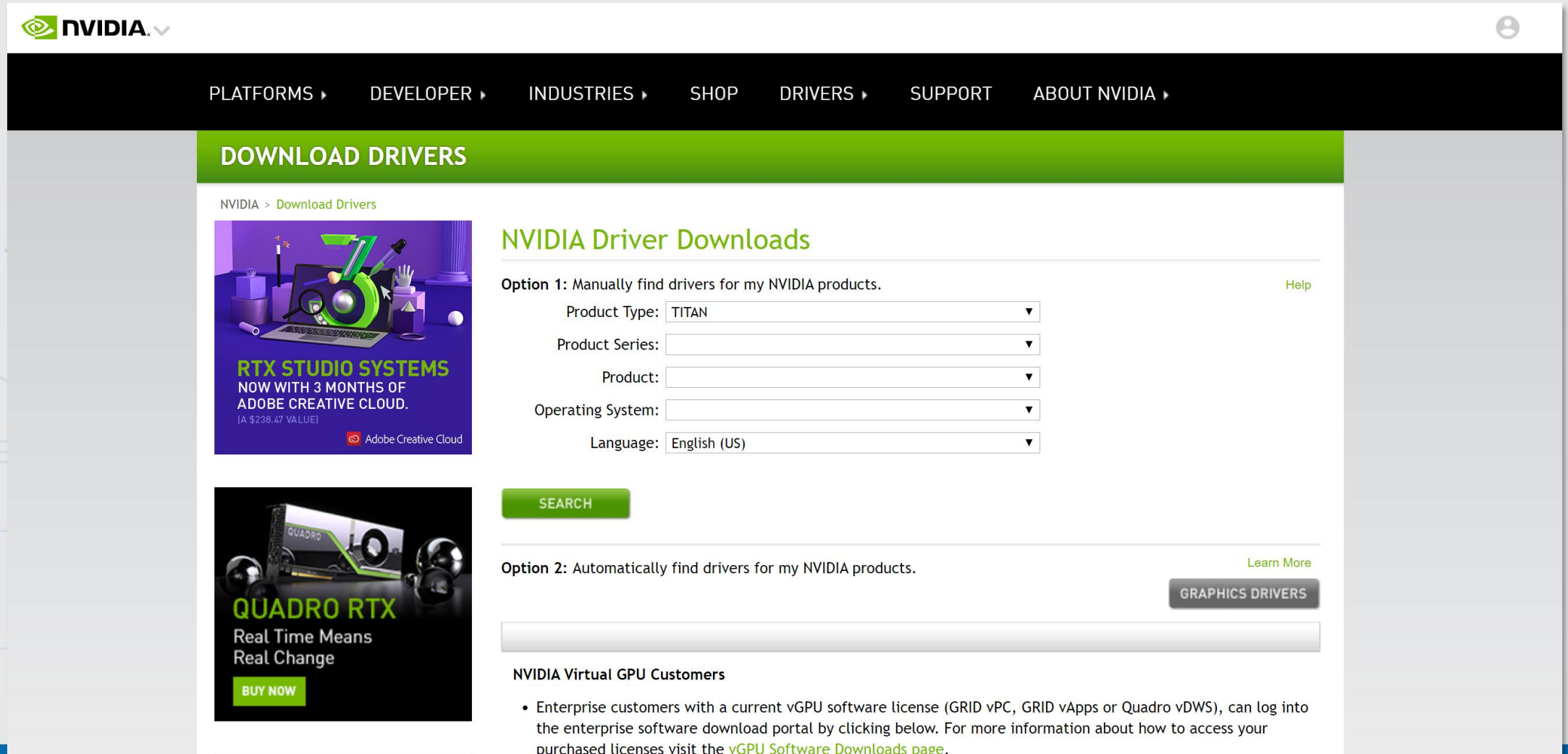
對應版本列表

GPU

Version	Python version	Compiler	Build tools	cuDNN	CUDA
tensorflow_gpu-2.0.0	3.5-3.7	MSVC 2017	Bazel 0.26.1	7.4	10
tensorflow_gpu-1.14.0	3.5-3.7	MSVC 2017	Bazel 0.24.1-0.25.2	7.4	10
tensorflow_gpu-1.13.0	3.5-3.7	MSVC 2015 update 3	Bazel 0.19.0-0.21.0	7.4	10
tensorflow_gpu-1.12.0	3.5-3.6	MSVC 2015 update 3	Bazel 0.15.0	7	9
tensorflow_gpu-1.11.0	3.5-3.6	MSVC 2015 update 3	Bazel 0.15.0	7	9
tensorflow_gpu-1.10.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	7	9
tensorflow_gpu-1.9.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	7	9
tensorflow_gpu-1.8.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	7	9
tensorflow_gpu-1.7.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	7	9
tensorflow_gpu-1.6.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	7	9
tensorflow_gpu-1.5.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	7	9
tensorflow_gpu-1.4.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	6	8
tensorflow_gpu-1.3.0	3.5-3.6	MSVC 2015 update 3	Cmake v3.6.3	6	8

GPU運算相關軟體

驅動程式



GPU運算相關軟體

CUDA

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Home > High Performance Computing > CUDA Toolkit > CUDA Toolkit Archive

CUDA Toolkit Archive

Previous releases of the CUDA Toolkit, GPU Computing SDK, documentation and developer drivers can be found using the links below. Please select the rele
and be sure to check www.nvidia.com/drivers for more recent production drivers appropriate for your hardware configuration.

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Latest Release

CUDA Toolkit 10.2 (Nov 2019), Versioned Online Documentation

Archived Releases

CUDA Toolkit 10.1 update2 (Aug 2019), Versioned Online Documentation

CUDA Toolkit 10.1 update1 (May 2019), Versioned Online Documentation
CUDA Toolkit 10.1 (Feb 2019), Online Documentation
CUDA Toolkit 10.0 (Sept 2018), Online Documentation
CUDA Toolkit 9.2 (May 2018),Online Documentation
CUDA Toolkit 9.1 (Dec 2017), Online Documentation
CUDA Toolkit 9.0 (Sept 2017), Online Documentation
CUDA Toolkit 8.0 GA2 (Feb 2017), Online Documentation
CUDA Toolkit 8.0 GA1 (Sept 2016), Online Documentation

GPU運算相關軟體

cuDNN

NVIDIA cuDNN

The NVIDIA CUDA® Deep Neural Network library (cuDNN) is a GPU-accelerated library of primitives for deep neural networks. cuDNN provides highly tuned implementations for standard routines such as forward and backward convolution, pooling, normalization, and activation layers.

Deep learning researchers and framework developers worldwide rely on cuDNN for high-performance GPU acceleration. It allows them to focus on training neural networks and developing software applications rather than spending time on low-level GPU performance tuning. cuDNN accelerates widely used deep learning frameworks, including Caffe,Caffe2, Chainer, Keras,MATLAB, MxNet, TensorFlow, and PyTorch. For access to NVIDIA optimized deep learning framework containers, that has cuDNN integrated into the frameworks, visit NVIDIA GPU CLOUD to learn more and get started.

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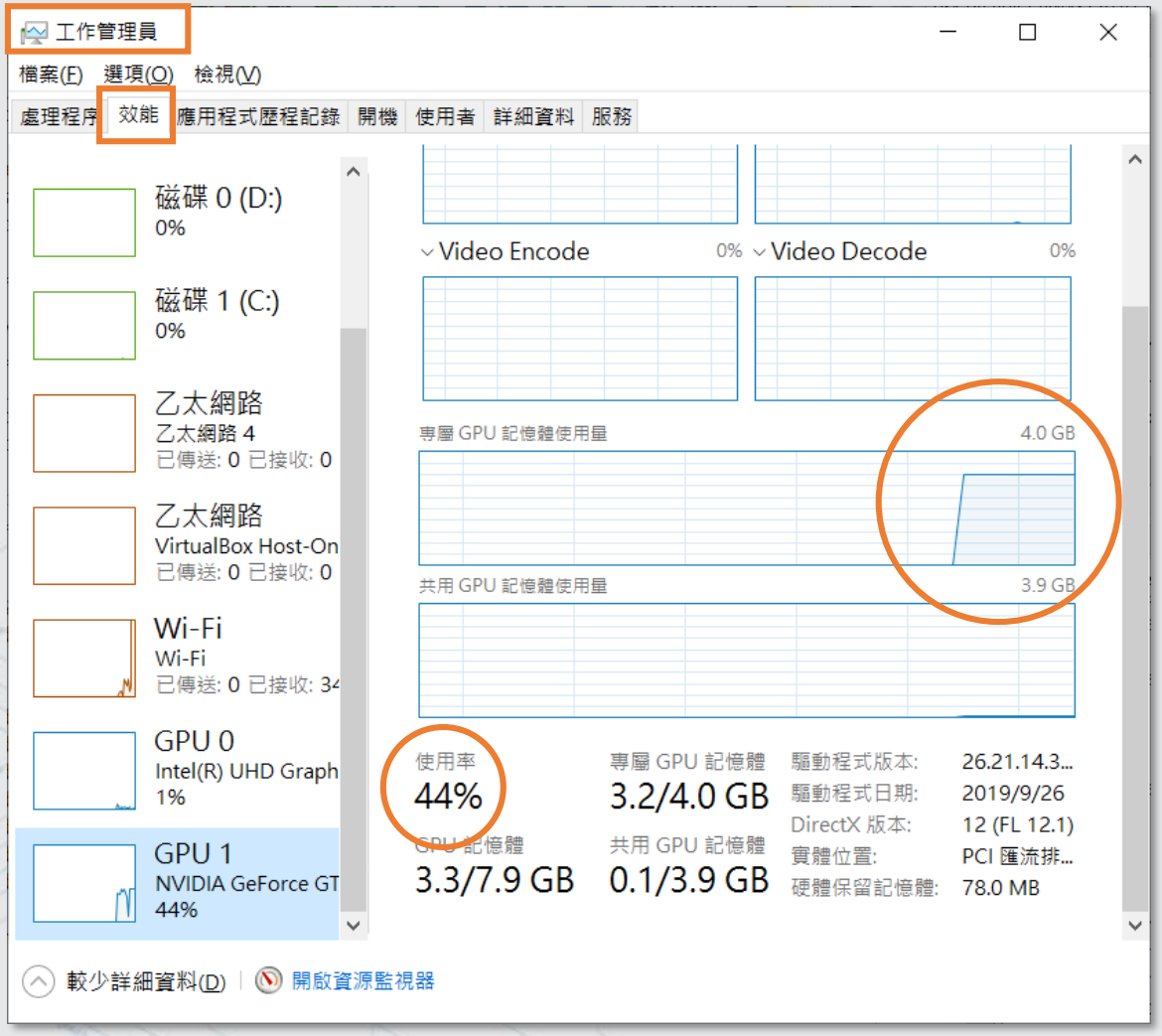
example


工作管理員
檔案(F) 選項(O) 檢視(V)
處理程序 效能 應用程式歷程記錄 開機 使用者 詳細資料 服務
磁碟 0 (D:)
0%
磁碟 1 (C:)
0%
乙太網路
乙太網路 4
已傳送: 0 已接收: 0
乙太網路
VirtualBox Host-On
已傳送: 0 已接收: 0
Wi-Fi
Wi-Fi
已傳送: 0 已接收: 34
GPU 0
Intel(R) UHD Graph
1%
GPU 1
NVIDIA GeForce GT
44%
Video Encode 0%
Video Decode 0%
專屬 GPU 記憶體使用量 4.0 GB
共用 GPU 記憶體使用量 3.9 GB
使用率
44%
專屬 GPU 記憶體
3.2/4.0 GB
GPU 記憶體
3.3/7.9 GB
共用 GPU 記憶體
0.1/3.9 GB
驅動程式版本: 26.21.14.3...
驅動程式日期: 2019/9/26
DirectX 版本: 12 (FL 12.1)
實體位置: PCI 匯流排...
硬體保留記憶體: 78.0 MB
較少詳細資料(D)
開啟資源監視器