

NVIDIA Developer Zone

Developer Centers	Technologies	Tools
Resources	Community	

CUDA GPUs

NVIDIA GPUs power millions of desktops, notebooks, workstations and supercomputers around the world, accelerating computationally-intensive tasks for consumers, professionals, scientists, and researchers.

Find out all about CUDA and GPU Computing by attending our [*GPU Computing Webinars*](#) and joining our free-to-join [*CUDA Registered developer Program*](#).

- Learn about [*Tesla*](#) for technical and scientific computing
- Learn about [*Quadro*](#) for professional visualization

CUDA-Enabled Tesla GPU Computing Products



Tesla Workstation Products

GPU	Compute Capability
<i>Tesla K20</i>	3.5
<i>Tesla C2075</i>	2.0
<i>Tesla C2050/C2070</i>	2.0
<i>Tesla C1060</i>	1.3
<i>Tesla C870</i>	1.0
<i>Tesla D870</i>	1.0

Tesla Data Center Products

GPU	Compute Capability
<i>Tesla K20</i>	3.5
<i>Tesla K10</i>	3.0
<i>Tesla M2050/M2070/M2075/M2090</i>	2.0
<i>Tesla S1070</i>	1.3
<i>Tesla M1060</i>	1.3
<i>Tesla S870</i>	1.0

CUDA-Enabled Quadro Products



Quadro Desktop Products

GPU	Compute Capability
<u>Quadro K5000</u>	3.0
<u>Quadro 6000</u>	2.0
<u>Quadro 5000</u>	2.0
<u>Quadro 4000</u>	2.0
<u>Quadro 4000 for Mac</u>	2.0
<u>Quadro 2000</u>	2.1
<u>Quadro 2000D</u>	2.1
<u>Quadro 600</u>	2.1
<u>Quadro FX 5800</u>	1.3
<u>Quadro FX 5600</u>	1.0
<u>Quadro FX 4800</u>	1.3
<u>Quadro FX 4800 for Mac</u>	1.3
<u>Quadro FX 4700 X2</u>	1.1
<u>Quadro FX 4600</u>	1.0
<u>Quadro FX 3800</u>	1.3
<u>Quadro FX 3700</u>	1.1
<u>Quadro FX 1800</u>	1.1
Quadro FX 1700	1.1
<u>Quadro FX 580</u>	1.1
Quadro FX 570	1.1
<u>Quadro FX 470</u>	1.1
<u>Quadro FX 380</u>	1.1
<u>Quadro FX 380 Low Profile</u>	1.2
Quadro FX 370	1.1
<u>Quadro FX 370 Low Profile</u>	1.1

<u>Quadro CX</u>	1.3
<u>Quadro NVS 450</u>	1.1
<u>Quadro NVS 420</u>	1.1
<u>NVIDIA NVS 300</u>	1.2
<u>Quadro NVS 295</u>	1.1
<u>Quadro Plex 7000</u>	2.0
<u>Quadro Plex 2200 D2</u>	1.3
<u>Quadro Plex 2100 D4</u>	1.1
<u>Quadro Plex 2100 S4</u>	1.0

Quadro Mobile Products

GPU	Compute Capability
<u>Quadro K500M</u>	3.0
<u>Quadro 5010M</u>	2.0
<u>Quadro 5000M</u>	2.0
<u>Quadro 4000M</u>	2.1
<u>Quadro 3000M</u>	2.1
<u>Quadro 2000M</u>	2.1
<u>Quadro 1000M</u>	2.1
<u>Quadro FX 3800M</u>	1.1
<u>Quadro FX 3700M</u>	1.1
<u>Quadro FX 3600M</u>	1.1
<u>Quadro FX 2800M</u>	1.1
<u>Quadro FX 2700M</u>	1.1
<u>Quadro FX 1800M</u>	1.2
<u>Quadro FX 1700M</u>	1.1
<u>Quadro FX 1600M</u>	1.1
<u>Quadro FX 880M</u>	1.2
<u>Quadro FX 770M</u>	1.1

<u>Quadro FX 570M</u>	1.1
<u>Quadro FX 380M</u>	1.2
<u>Quadro FX 370M</u>	1.1
<u>Quadro FX 360M</u>	1.1
<u>Quadro NVS 320M</u>	1.1
<u>Quadro NVS 160M</u>	1.1
<u>Quadro NVS 150M</u>	1.1
<u>Quadro NVS 140M</u>	1.1
<u>Quadro NVS 135M</u>	1.1
<u>Quadro NVS 130M</u>	1.1

CUDA-Enabled NVS Products



Desktop Products

GPU	Compute Capability
<u>Quadro NVS 450</u>	1.1
<u>Quadro NVS 420</u>	1.1
<u>NVIDIA NVS 300</u>	1.2
<u>Quadro NVS 295</u>	1.1

Mobile Products

GPU	Compute Capability
<u>NVS 5400M</u>	2.1
<u>NVS 5200M</u>	2.1
<u>NVS 4200M</u>	2.1
<u>NVS 5100M</u>	1.2
<u>NVS 3100M</u>	1.2
<u>NVS 2100M</u>	1.2

CUDA-Enabled GeForce Products

GeForce 8, 9, 100, 200, 400-series, 500-series, and 600-series GPUs with a minimum of 256MB of local graphics memory.



GeForce Desktop Products

GPU	Compute Capability
<u>GeForce GTX 690</u>	3.0
<u>GeForce GTX 680</u>	3.0
<u>GeForce GTX 670</u>	3.0
<u>GeForce GTX 660 Ti</u>	3.0
<u>GeForce GTX 660</u>	3.0
<u>GeForce GTX 650 Ti</u>	3.0
<u>GeForce GTX 650</u>	3.0
<u>GeForce GTX 560 Ti</u>	2.1
<u>GeForce GTX 550 Ti</u>	2.1
<u>GeForce GTX 460</u>	2.1
<u>GeForce GTS 450</u>	2.1
<u>GeForce GTS 450*</u>	2.1
<u>GeForce GTX 590</u>	2.0
<u>GeForce GTX 580</u>	2.0
<u>GeForce GTX 570</u>	2.0
<u>GeForce GTX 480</u>	2.0
<u>GeForce GTX 470</u>	2.0
<u>GeForce GTX 465</u>	2.0
<u>GeForce GTX 295</u>	1.3
<u>GeForce GTX 285</u>	1.3
<u>GeForce GTX 285 for Mac</u>	1.3
<u>GeForce GTX 280</u>	1.3
<u>GeForce GTX 275</u>	1.3
<u>GeForce GTX 260</u>	1.3

<u>GeForce GT 640</u>	2.1
<u>GeForce GT 630</u>	2.1
<u>GeForce GT 620</u>	2.1
<u>GeForce GT 610</u>	2.1
<u>GeForce GT 520</u>	2.1
<u>GeForce GT 440</u>	2.1
<u>GeForce GT 440*</u>	2.1
<u>GeForce GT 430</u>	2.1
<u>GeForce GT 430*</u>	2.1
<u>GeForce GT 420*</u>	1.0
<u>GeForce GT 240</u>	1.2
<u>GeForce GT 220*</u>	1.2
<u>GeForce 210*</u>	1.2
<u>GeForce GTS 250</u>	1.1
<u>GeForce GTS 150</u>	1.1
<u>GeForce GT 130*</u>	1.1
<u>GeForce GT 120*</u>	1.1
<u>GeForce G100*</u>	1.1
<u>GeForce 9800 GX2</u>	1.1
<u>GeForce 9800 GTX+</u>	1.1
<u>GeForce 9800 GTX</u>	1.1
<u>GeForce 9600 GSO</u>	1.1
<u>GeForce 9500 GT</u>	1.1
<u>GeForce 8800 GTS</u>	1.1
<u>GeForce 8800 GT</u>	1.1
<u>GeForce 8800 GS</u>	1.1
<u>GeForce 8600 GTS</u>	1.1
<u>GeForce 8600 GT</u>	1.1

<u>GeForce 8500 GT</u>	1.1
<u>GeForce 8400 GS</u>	1.1
<u>GeForce 9400 mGPU</u>	1.1
<u>GeForce 9300 mGPU</u>	1.1
<u>GeForce 8300 mGPU</u>	1.1
<u>GeForce 8200 mGPU</u>	1.1
<u>GeForce 8100 mGPU</u>	1.1
<u>GeForce 8800 Ultra</u>	1.0
<u>GeForce 8800 GTX</u>	1.0
<u>GeForce GT 340*</u>	1.0
<u>GeForce GT 330*</u>	1.0
<u>GeForce GT 320*</u>	1.0
<u>GeForce 315*</u>	1.0
<u>GeForce 310*</u>	1.0
<u>GeForce 9800 GT</u>	1.0
<u>GeForce 9600 GT</u>	1.0
<u>GeForce 9400GT</u>	1.0

GeForce Notebook Products

GPU	Compute Capability
<u>GeForce GTX 680MX</u>	3.0
<u>GeForce GTX 680M</u>	3.0
<u>GeForce GTX 675MX</u>	3.0
<u>GeForce GTX 675M</u>	2.1
<u>GeForce GTX 670MX</u>	3.0
<u>GeForce GTX 670M</u>	2.1
<u>GeForce GTX 660M</u>	3.0
<u>GeForce GT 650M</u>	3.0

<u>GeForce GT 645M</u>	3.0
<u>GeForce GT 640M</u>	3.0
<u>GeForce GT 640M LE</u>	3.0
<u>GeForce GT 635M</u>	2.1
<u>GeForce GT 630M</u>	2.1
<u>GeForce GT 625M</u>	2.1
<u>GeForce GT 620M</u>	2.1
<u>GeForce 610M</u>	2.1
<u>GeForce GTX 580M</u>	2.1
<u>GeForce GTX 570M</u>	2.1
<u>GeForce GTX 560M</u>	2.1
<u>GeForce GT 555M</u>	2.1
<u>GeForce GT 550M</u>	2.1
<u>GeForce GT 540M</u>	2.1
<u>GeForce GT 525M</u>	2.1
<u>GeForce GT 520MX</u>	2.1
<u>GeForce GT 520M</u>	2.1
<u>GeForce GTX 485M</u>	2.1
<u>GeForce GTX 470M</u>	2.1
<u>GeForce GTX 460M</u>	2.1
<u>GeForce GT 445M</u>	2.1
<u>GeForce GT 435M</u>	2.1
<u>GeForce GT 420M</u>	2.1
<u>GeForce GT 415M</u>	2.1
<u>GeForce GTX 480M</u>	2.0
<u>GeForce GTS 360M</u>	1.2
<u>GeForce GTS 350M</u>	1.2
<u>GeForce GT 335M</u>	1.2

<u>GeForce GT 330M</u>	1.2
<u>GeForce GT 325M</u>	1.2
<u>GeForce GT 240M</u>	1.2
<u>GeForce G210M</u>	1.2
<u>GeForce 310M</u>	1.2
<u>GeForce 305M</u>	1.2
<u>GeForce GTX 285M</u>	1.1
<u>GeForce GTX 280M</u>	1.1
<u>GeForce GTX 260M</u>	1.1
<u>GeForce 9800M GTX</u>	1.1
<u>GeForce 8800M GTX</u>	1.1
<u>GeForce GTS 260M</u>	1.1
<u>GeForce GTS 250M</u>	1.1
<u>GeForce 9800M GT</u>	1.1
<u>GeForce 9600M GT</u>	1.1
<u>GeForce 8800M GTS</u>	1.1
<u>GeForce 9800M GTS</u>	1.1
<u>GeForce GT 230M</u>	1.1
<u>GeForce 9700M GT</u>	1.1
<u>GeForce 9650M GS</u>	1.1
<u>GeForce 9700M GT</u>	1.1
<u>GeForce 9650M GS</u>	1.1
<u>GeForce 9600M GT</u>	1.1
<u>GeForce 9600M GS</u>	1.1
<u>GeForce 9500M GS</u>	1.1
<u>GeForce 8700M GT</u>	1.1
<u>GeForce 8600M GT</u>	1.1

<u>GeForce 8600M GS</u>	1.1
<u>GeForce 9500M G</u>	1.1
<u>GeForce 9300M G</u>	1.1
<u>GeForce 8400M GS</u>	1.1
<u>GeForce G210M</u>	1.1
<u>GeForce G110M</u>	1.1
<u>GeForce 9300M GS</u>	1.1
<u>GeForce 9200M GS</u>	1.1
<u>GeForce 9100M G</u>	1.1
<u>GeForce 8400M GT</u>	1.1
<u>GeForce G105M</u>	1.1

Frequently Asked Questions

1) How can I find out which GPU is in my computer?

Answer:

On Windows computers:

1. Right-click on desktop
2. If you see "NVIDIA Control Panel" or "NVIDIA Display" in the pop-up window, you have an NVIDIA GPU
3. Click on "NVIDIA Control Panel" or "NVIDIA Display" in the pop-up window
4. Look at "Graphics Card Information"
5. You will see the name of your NVIDIA GPU

On Apple computers:

1. Click on "Apple Menu"
2. Click on "About this Mac"
3. Click on "More Info"
4. Select "Graphics/Displays" under Contents list

2) Do I have a CUDA-enabled GPU in my computer?

Answer: Check the list above to see if your GPU is on it. If it is, it means your computer has a modern GPU that can take advantage of CUDA-accelerated applications.

3) How do I know if I have the latest drivers?

Answer: Go to www.nvidia.com/drivers

4) How can I obtain a CUDA-enabled GPU or system?

Answer:

For Tesla for HPC and supercomputing applications, go to www.nvidia.com/object/tesla_wtb.html

For GeForce for entertainment, go to www.nvidia.com/object/geforce_family.html

For Quadro for professional visualization, go to www.nvidia.com/object/workstation_wherebuy.html

5) How can I download the CUDA software development kit?

Answer: Go to [CUDA Development Tools](#).

*OEM-only products

Quicklinks

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