GPU Accelerator Capabilities *

Release 2019 R3

* Used in support of the CPU to process certain calculations and key solver computations for faster performance during a solution.
- Acceleration can be used for both shared-memory parellel processing (shared-memory ANSYS) and distributed-memory parallel processing (Distributed ANSYS).
- Acceleration is available for both Windows and Linux.

Support by Application

ANSYS Mechanical APDL supports NVIDIA's CUDA-enabled Tesla and Quadro series workstation and server cards. When using the sparse solver or eigensolvers based on the sparse solver with NVIDIA cards additional considerations apply (please consult the ANSYS installation guide for details).

ANSYS Fluent supports NVIDIA's CUDA-enabled Tesla and Quadro series workstation and server cards.

ANSYS Polyflow supports NVIDIA's CUDA-enabled Tesla and Quadro series workstation and server cards.

ANSYS EMIT supports NVIDIA Tesla and Quadro V series, P series, M series and K series cards, GeForce GTX Series and GeForce GT Series.

ANSYS HFSS supports NVIDIA Tesla V and P series, C20-series, Tesla K series, Quadro V, P and K series (K5000 and above).

ANSYS ICEPAK supports NVIDIA's CUDA-enabled Tesla and Quadro series workstation and server cards.

ANSYS Maxwell supports NVIDIA Tesla V and P series, C20-series, Tesla K series, Quadro V, P and K series (K5000 and above).

ANSYS Savant supports NVIDIA Tesla and Quadro V series, P series, M series and K series cards, GeForce GTX Series and GeForce GT Series.

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System Version
ANSYS Mechanical APDL	NVIDIA	Tesla	P100	Windows x64	Windows 10
				Linux x64	CentOS 7.4
			RTX 6000	Linux x64	SLES 12 SP2
			RTX 8000	Windows x64	Windows 10
			V100	Windows x64	Windows Server 2016
ANSYS Fluent	NVIDIA	Quadro	GP100	Linux x64	Red Hat 7.6
			GV100	Linux x64	CentOS 7.4
			P4000	Windows x64	Windows 10
		Tesla	K40	Windows x64	Windows 10
			K80	Linux x64	Red Hat 7.5
					SLES 12 SP3
			P100	Linux x64	SLES 12 SP2
			V100	Linux x64	SLES 12 SP3
ANSYS Polyflow	NVIDIA	Quadro	M4000	Linux x64	SLES 12 SP4
					CentOS 7.6
			P6000	Windows x64	Windows 10
		Tesla	K20c	Windows x64	Windows 7

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System Version
ANSYS EMIT			M4000	Windows x64	Windows 10
				Linux x64	SLES 12 SP2
ANSYS HFSS	NVIDIA	Tesla	K20	Linux x64	CentOS 7.5
			K80	Linux x64	Red Hat 7.4
			P100	Windows x64	Windows Server 2016
ANSYS Savant	NVIDIA	Quadro	GP100	Windows x64	Windows 10
			GV100	Windows x64	Windows 10
			K4200	Windows x64	Windows 10
			M1200	Windows x64	Windows 10
			M4000	Windows x64	Windows 10
				Linux x64	SLES 12 SP2
			P4000	Windows x64	Windows 10
			RTX6000	Windows x64	Windows 10

Manufacturer Support:
NIVIDA: http://www.nvidia.com/object/gpu-applications.html