



GPU Accelerator Capabilities *

Release 2019 R1

* 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 parallel 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	K80	Linux x64	Red Hat 6.10
			M2075	Linux x64	Red Hat 7.5
			P100	Windows x64	Windows 10
				Linux x64	CentOS 7.4
			V100	Windows x64	Windows Server 2016
ANSYS Fluent	NVIDIA	Quadro	GP100	Linux x64	Red Hat 7.5
			P4000	Windows x64	Windows 10
		Tesla	K40m	Windows x64	Windows 10
			K80	Linux x64	Red Hat 7.5
					SLES 12 SP3
		P100	Linux x64	SLES 12 SP3	
		V100	Linux x64	SLES 12 SP3	

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System Version
ANSYS Polyflow		Tesla	K20c	Windows x64	Windows 7
			K40c	Windows x64	Windows 7
		Quadro	K80	Linux x64	Red Hat 7.5
			M4000	Windows x64	Windows 10
				Linux x64	Red Hat 6.9
		P4000	Linux x64	Red Hat 6.9	
			Linux x64	Red Hat 7.5	
			Linux x64	SLES 12 SP 2	
		P6000 (dual)	Windows x64	Windows 10	
ANSYS EMIT	NVIDIA	Quadro	GP100	Windows x64	Windows 10
			GV100	Windows x64	Windows 10
			K4200	Windows x64	Windows 10
			M4000	Windows x64	Windows 10
				Linux x64	SLES 12 SP2
			M5000	Linux x64	CentOS 7.2
			P4000	Windows x64	Windows 10
		Tesla	K40c	Windows x64	Windows 7
			P100	Windows x64	Windows Server 2012
ANSYS HFSS		Tesla	K20	Linux x64	CentOS 6.7
			K40m	Windows x64	Windows Server 2012
			K80	Windows x64	Windows Server 2012
				Linux x64	Red Hat 6.7
			P100	Windows x64	Windows Server 2012
				Linux x64	CentOS 7.2
			V100	Linux x64	CentOS 7.2
ANSYS ICEPAK	NVIDIA	Quadro	K6000	Windows x64	Windows 10
				Linux x64	CentOS 7.3
			M4000	Windows x64	Windows 10
				Linux x64	CentOS 6.7
		Tesla	K80	Linux x64	CentOS 7.3
				Windows x64	Windows Server 2012
			P100	Linux x64	CentOS 7.1
		P100	Windows x64	Windows Server 2012	

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Testing Operating System Version	
ANSYS Maxwell		Tesla	K20	Linux x64	CentOS 6.7	
			K40m	Windows x64	Windows Server 2012	
			K80	Windows x64	Windows Server 2012	
				Linux x64	Red Hat 6.7	
			P100	Windows x64	Windows Server 2012	
				Linux x64	CentOS 7.2	
			V100	Linux x64	CentOS 7.2	
ANSYS Savant	NVIDIA	Quadro	GP100	Windows x64	Windows 10	
			GV100	Windows x64	Windows 10	
			K4200	Windows x64	Windows 10	
			M4000	Windows x64	Windows 10	
				Linux x64	SLES 12 SP2	
			M5000	Linux x64	CentOS 7.2	
			P4000	Windows x64	Windows 10	
			Tesla	K40c	Windows x64	Windows 7
				P100	Windows x64	Windows Server 2012

Manufacturer Support:

NVIDIA: <http://www.nvidia.com/object/gpu-applications.html>