



GPU Accelerator Capabilities *

Release 19.2

* 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 6.8
			M2075	Linux x64	Red Hat 7.3
			P100	Windows x64	Windows 10
				Linux x64	CentOS 7.4
			V100	Windows x64	Windows Server 2016
				Linux x64	CentOS 7.3
ANSYS Fluent	NVIDIA	Quadro	GP100	Linux x64	Red Hat 7.2
			K5000	Windows x64	Windows 7
		Tesla	C2075	Windows x64	Windows 7
			K40m	Windows x64	Windows 10
			K80	Linux x64	Red Hat 7.2
			M2075	Windows x64	Windows 7
			P100	Linux x64	SLES 11 SP3

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System Version
ANSYS Polyflow	NVIDIA	Quadro	K4000	Linux x64	Red Hat 7.4
			K5000	Windows x64	Windows 7
			M4000	Windows x64	Windows 10
					Windows Server 2016
			Linux x64	SLES 12 SP3	
		P4000	Linux x64	Red Hat 6.9	
				SLES 12 SP2	
				CentOS 7.4	
		P6000 (Dual)	Windows x64	Windows 10	
		Tesla	K20c	Windows x64	Windows 7
K80	Linux x64		Red Hat 7.2		
ANSYS EMIT	NVIDIA	Quadro	GV100	Windows x64	Windows 10
			M4000	Windows x64	Windows 10
					Linux x64
		Tesla	K20c	Windows x64	Windows 10
			K40c	Windows x64	Windows 7
			P100	Windows x64	Windows Server 2012
ANSYS HFSS	NVIDIA	Quadro	GP100	Windows x64	Windows 10
			GV100	Windows x64	Windows 10
		Tesla	K40c	Windows x64	Windows 10
			K80	Linux x64	CentOS 7.3
					Windows Server 2012
		P100	Windows x64	Windows Server 2016	
				Linux x64	SLES 11 SP3
V100	Linux x64	SLES 11 SP3			

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Testing Operating System Version
ANSYS ICEPAK	NVIDIA	Quadro	K6000	Windows x64	Windows 10
				Linux x64	CentOS 7.3
			M4000	Windows x64	Windows 10
				Linux x64	CentOS 7.3
		Tesla	K80	Windows x64	Windows Server 2012
				Linux x64	Red Hat 7.2
			M2075	Windows x64	Windows 7
				P100	Windows x64
Linux x64	SLES 11 SP3				
ANSYS Maxwell	NVIDIA	Quadro	GP100	Windows x64	Windows 10
			GV100	Windows x64	Windows 10
		Tesla	K40c	Windows x64	Windows 10
			K80	Linux x64	CentOS 7.3
				P100	Windows x64
		Windows Server 2016			
		Linux x64	SLES 11.3		
		V100	Linux x64	SLES 11.3	
ANSYS Savant	NVIDIA	Quadro	GV100	Windows x64	Windows 10
			M4000	Windows x64	Windows 10
				Linux x64	SLES 11 SP3
		Tesla	K20c	Windows x64	Windows 10
			K40c	Windows x64	Windows 7
			P100	Windows x64	Windows Server 2012

Manufacturer Support:

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