



## GPU Accelerator Capabilities \*

Release 2019 R2

\* 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
<b>ANSYS Mechanical APDL</b>	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
<b>ANSYS Fluent</b>	NVIDIA	Quadro	GP100	Linux x64	Red Hat 7.6 CentOS 7.4
			P4000	Windows x64	Windows 10
		Tesla	K40m	Windows x64	Windows 10
			K80	Linux x64	SLES 12 SP3
			K81	Linux x64	Red Hat 7.5
			P100	Linux x64	SLES 12 SP2
			V100	Linux x64	SLES 12 SP3

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System Version
<b>ANSYS Polyflow</b>	NVIDIA	Quadro	K4000	Windows x64	Windows 10
			Tesla	K40c	Windows x64
		K80		Linux x64	Red Hat 7.5
			<b>ANSYS EMIT</b>	NVIDIA	Quadro
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			
M5000	Linux x64	CentOS 7.6			
P4000	Windows x64	Windows 10			
RTX6000	Windows x64	Windows 10			
<b>ANSYS HFSS</b>	NVIDIA	Tesla		K20	Linux x64
			K40m	Windows x64	Windows Server 2012
			K80	Windows x64	Windows Server 2012
				Linux x64	Red Hat 7.4
			P100	Windows x64	Windows Server 2016
				Linux x64	CentOS 7.2
			V100	Linux x64	CentOS 7.2
<b>ANSYS ICEPAK</b>	NVIDIA	Quadro	K6000	Windows x64	Windows 10
				Linux x64	CentOS 7.3
			M4000	Windows x64	Windows 10
				Linux x64	CentOS 7.3
		Tesla	K80	Linux x64	Red Hat 7.4
			P100	Windows x64	Windows Server 2016

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Testing Operating System Version	
<b>ANSYS Maxwell</b>	NVIDIA	Quadro	M4000	Windows x64	Windows 10	
			GP100	Windows x64	Windows 10	
<b>ANSYS Savant</b>	NVIDIA	Quadro	GV100	Windows x64	Windows 10	
			K4200	Windows x64	Windows 10	
			M1200	Windows x64	Windows 10	
			M4000	Windows x64	Windows 10	
			M4000	Linux x64	SLES 12 SP2	
			M5000	Linux x64	CentOS 7.6	
			P4000	Windows x64	Windows 10	
			RTX6000	Windows x64	Windows 10	
			Tesla	K40c	Windows x64	Windows 7
				P100	Windows x64	Windows Server 2016

**Manufacturer Support:**

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