



GPU Compute Capabilities

Release 2024 R2

The cards listed below have been tested by Ansys, Inc. to verify support of the GPU solvers. Compute capabilities are available for both Windows and Linux and support most NVIDIA Tesla and NVIDIA Quadro series GPUs.

Specific to Fluent:

- Compute capabilities can be used for both shared-memory parallel processing and distributed-memory parallel processing.
- Fluent has beta support for AMD GPUs in release 2024 R1, including AMD MI250 GPUs.

Specific to Speos:

- Speos is best optimized on RTX GPUs because it supports RT-core acceleration.

Specific to Rocky:

- Rocky does not support cluster computing.
- Compute capability of 6.0 or higher. Cards with a CUDA compute capability as low as 3.5 might still work with Rocky but are not guaranteed.

Cards Tested

The performance benefit of using a GPU Accelerator will depend on the card selected and the overall system configuration.

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System Version	Notes	
Fluent GPU Solver	AMD	Instinct	MI210	Linux x64	Red Hat 9.4		
					Rocky 8.8		
	NVIDIA	Quadro	A100	Linux x64	Red Hat 9.3		
					Red Hat 8.5		
	NVIDIA	Quadro RTX	RTX A4000	Linux x64	Red Hat 8.9		
					Windows 11		
					Windows 11		
					Windows Server 2019		
					Windows Server 2022		
					Linux x64	Red Hat 8.6	
					Red Hat 8.7		
					Red Hat 8.9		
					Red Hat 9.3		
					Rocky 8.9		
	Rocky 9.3						
SLES 15 SP3							
SLES 15 SP5							
NVIDIA	Quadro RTX	RTX A6000 Ada	Linux x64	Red Hat 8.9			
				SLES 15.5			

				Ubuntu 20.04
		RTX 4000	Windows x64	Windows 10
				Windows 11
				Windows Server 2019
				Windows Server 2022
		RTX 6000	Windows x64	Windows 11
			Linux x64	SLES 15 SP5

Application	Manufacturer	Product Series	Card / GPU	Teted Platform	Tested Operating System Version	Notes		
Lumerical	NVIDIA	Quadro	A10G	Windows x64				
			A30	Windows x64				
			A100	Windows x64				
			A100	Linux x64	Red Hat 7.0			
					Red Hat 8.0			
					Red Hat 9.0			
					Rocky 7.0			
					Rocky 8.0			
					Rocky 9.0			
			A800	Windows x64				
			H100	Windows x64				
			P4000	Windows x64				
			V400	Windows x64				
				Quadro RTX	A4000	Windows x64		
						Linux x64	Red Hat 7.0	
				Red Hat 8.0				
				Red Hat 9.0				
				Rocky 7.0				
				Rocky 8.0				
				Rocky 9.0				
		A4000 Ada	Windows x64					
		5000 Laptop	Windows x64					
		A5500	Windows x64					

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System	Notes
Speos GPU Solver	NVIDIA	Grid	P40-8Q	Windows x64	Windows 11	
		Quadro	GTX 1080	Windows x64	Windows 10	
	GV100		Windows x64	Windows 11		
			Linux x64	Red Hat 8.5		
	P5000		Windows x64	Windows 11		
	P5200		Windows x64	Windows 10		
	Quadro RTX	A5000	Windows x64	Windows 10		
				Windows 11		
		A5500	Windows x64	Windows 10		
		4000	Windows x64	Windows 11		
			Linux x64	Red Hat 8.5		
		4000 Ada	Windows x64	Windows 11		
		5000	Windows x64	Windows 11		
		5000 Ada	Windows x64	Windows 10		
		6000	Windows x64	Windows 10		
				Windows 11		
	6000 Ada	Windows x64	Windows 11			
8000P-8Q	Windows x64	Windows 11				

Application	Manufacturer	Product Series	Card / GPU	Tested Platform	Tested Operating System	Notes
Speos HPC	NVIDIA	Quadro	GV100	Linux x64	CentOS 7.9	
			P6000	Windows x64	Windows Server 2019	
	Quadro RTX	A4000	Windows x64	Windows Server 2019		
			Linux x64	CentOS 9.3		
		A6000	Linux x64	CentOS 8.8		
				Red Hat 9.3		
				Ubuntu 20.04		
		4000	Windows x64	Windows 11		
			Linux x64	CentOS 8.8		
				Red Hat 8.8		
4000 Ada	Linux x64	CentOS 8.8				