



GPU Compute Capabilities

Release 2026 R1

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.

The following applies to fully resident GPU solvers, see the *GPU Accelerator Capabilities* table for CPU-based solvers that use GPU to accelerate the solution.

Specific to Fluent:

- Compute capabilities can be used for both shared-memory parallel processing and distributed-memory parallel processing.
- Support for AMD Instinct™ MI200 and MI300 Series accelerators

Specific to FreeFlow:

- FreeFlow software does not support cluster computing.
- Compute capability of 6.0 or higher.
- FreeFlow software supports NVIDIA’s CUDA-enabled workstation (computing or gaming) CUDA version 12.8 toolkit or higher.

Specific to Speos:

- Speos is best optimized on RTX GPUs because it supports RT-core acceleration. Card configuration for use with RT-Cores is recommended.
- HPC is included in the Speos section below.

Specific to Rocky:

- Rocky software does not support cluster computing.
- Compute capability of 6.0 or higher.
- Rocky software supports NVIDIA’s CUDA-enabled workstation (computing or gaming) CUDA version 12.8 toolkit or higher, and fast double-precision for DEM simulations and single-precision for SPH simulations.

Cards Tested

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

Application	Manufacturer	Card Series	Card / GPU Tested	Tested Platform	Tested Operating System Version	Notes
Discovery	NVIDIA	GRID	RTX 8000 P	Windows x64	Windows Server 2025	
		Quadro	RTX 4000	Windows x64	Windows 11	
			RTX 6000	Windows x64	Windows 11	
		Quadro RTX	A4000	Windows x64	Windows 11	
			4000 Ada	Windows x64	Windows 11	
			6000 Ada	Windows x64	Windows 11	
		Tesla	T4	Windows x64	Windows Server 2022	

Application	Manufacturer	Card Series	Card / GPU Tested	Tested Platform	Tested Operating System Version	Notes
Fluent GPU Solver	AMD	Instinct	Instinct MI210	Linux x64	Red Hat 8.10	
					Red Hat 9.4	
					Rocky Linux 8.10	
					Rocky Linux 9.4	
			Instinct MI300X	Linux x64	Rocky Linux 8.10	
		Radeon Pro	Radeon Pro	Linux x64	Rocky Linux 8.10	
	Intel	Ponte Vecchio XT	Ponte Vecchio XT	Linux x64	Rocky Linux 9.6	
	NVIDIA	Ada Lovelace	L40	Windows x64	Windows 2022 Server	
				Linux x64	Red Hat 8.10	
				Red Hat 9.4		
			L40S	Windows x64	Windows Server 2025	
				Linux x64	Red Hat 9.6	
				Rocky Linux 9.4		
				SLES 15.6		
		Ampere	A100	Linux x64	Rocky Linux 8.10	
			A100-PCI	Linux x64	Rocky Linux 9.4	
			A100-SXM4-80GB	Linux x64	Red Hat 8.10	
		Hopper	GH200	Linux ARM64	Rocky Linux 9.6	
					Ubuntu 22.04	
			H100	Linux x64	Rocky Linux 8.10	
		Quadro	Quadro GV100	Linux x64	Red Hat 8.10	
		Quadro RTX	Quadro RTX 6000	Linux x64	SLES 15.5	
		RTX	RTX A4000	Windows x64	Windows 11	
			RTX 4000 Ada Generation	Windows x64	Windows 11	
			RTX 6000 Ada	Windows x64	Windows 11	
				Linux x64	Rocky Linux 8.10	
				Rocky Linux 9.4		
				SLES 15.7		
				Ubuntu 24.04		
			RTX 8000	Linux x64	Rocky Linux 8.10	
			RTX A4000	Linux x64	SLES 15.6	
			RTX A4500	Linux x64	SLES 15.7	
			RTX A5000	Windows x64	Windows 11	
			RTX A5500	Windows x64	Windows 11	
			RTX A6000	Windows x64	Windows Server 2022	
				Linux x64	Red Hat 9.6	
				Rocky Linux 9.6		
				SLES 15.7		
			RTX PRO 6000 Blackwell	Linux x64	Red Hat 9.6	

Application	Manufacturer	Card Series	Card / GPU Tested	Tested 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 Linux 8.0	
					Rocky Linux 8.0	
					Rocky Linux 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 Linux 8.0	
					Rocky Linux 8.0	
					Rocky Linux 9.0	
			A4000 Ada	Windows x64		
			5000 Laptop	Windows x64		
			A5500	Windows x64		

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Application	Manufacturer	Card Series	Card / GPU Tested	Tested Platform	Tested Operating System	Notes
Rocky	NVIDIA	Ada Lovelace	L40	Linux x64	Rocky Linux 8.10	
		Ampere	A40	Windows x64	Windows 11	
				Linux x64	Rocky Linux 8.10	
			A100	Linux x64	Rocky Linux 8.10	
			RTX A2000	Windows x64	Windows 11	
			RTX A4000	Windows x64	Windows 11	
		Hopper	H100	Linux x64	Rocky Linux 8.10	
		Tesla	T4	Windows x64	Windows Server 2022	

Application	Manufacturer	Card Series	Card / GPU Tested	Tetsed Platform	Tested Operating System	Notes
Speos GPU Solver	NVIDIA	Quadro	RTX A2000	Windows x64	Windows 11	
			RTX A4000	Windows x64	Windows 11	
			RTX A5000	Windows x64	Windows 11	
			RTX A5500	Windows x64	Windows 11	
			RTX A6000	Linux x64	Ubuntu 24.04	
			RTX 4000	Windows x64	Windows 11	
			RTX 5000	Windows x64	Windows 11	
			RTX 6000	Windows x64	Windows 11	
			RTX 5000 Ada	Windows x64	Windows 11	
			RTX 6000 Ada	Linux x64	Rocky Linux 8.10	
			RTX 6000 Ada	Windows x64	Windows 11	
			RTX PRO 6000 Max-Q	Windows x64	Windows 11	

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