Hardware requirements - FLOW-3D product family

FLOW Science DEUTSCHLAND

Recommendation for a basic configuration (One-CPU workstation)

Hardware	Minimal configuration	Recommendation	Optional
CPU (1, 2)	Intel® Xeon® w5-2545 12 Kerne / 3.5 GHz ... 4.7 GHz	Intel® Xeon® w5-3535X 20 Kerne / 2.9 GHz ... 4.8 GHz	Intel® Xeon® w7-2595X 26 Kerne / 2.8 GHz ... 4.8 GHz
RAM (3)	64 GByte (4 x 16 GByte) DDR5 4800 DIMM / ECC	128 GByte (4 x 32 GByte) DDR5 4800 DIMM / ECC	256 GByte (4 x 64 GByte) DDR5 4800 DIMM / ECC
Graphics card (4)	NVIDIA RTX 2000 ada	NVIDIA RTX 4000 ada	NVIDIA RTX 4500 ada
Storage	500 GB NVMe™ M.2 SSD	1 TB NVMe™ M.2 SSD	1 TB NVMe™ M.2 SSD
	2 TB SSD drive	4 TB NVMe™ M.2 SSD	2 x 4 TB NVMe™ M.2 SSD
Operating system (5)	Windows 11 Pro 64	Windows 11 Pro 64	Linux RHEL 8

Recommendation for a high-end configuration (Dual-CPU workstation)

Hardware	Recommendation 1	Recommendation 2	Optional
CPU (1, 2)	2 x Intel® Xeon® Gold 6544Y 2 x 16 Kerne / 3.6 GHz ... 4.1 GHz	2 x Intel® Xeon® Gold 6542Y 2 x 24 Kerne / 2.9 GHz ... 4.1 GHz	2 x Intel® Xeon® Gold 6558Q 2 x 32 Kerne / 3.2 GHz ... 4.1 GHz
RAM (3)	256 GByte (16 x 16 GByte) DDR5 5200 DIMM / ECC	512 GByte (16 x 32 GByte) DDR5 5200 DIMM / ECC	1 TByte (16 x 64 GByte) DDR5 5200 DIMM / ECC
Graphics card (4)	NVIDIA RTX 4000 ada	NVIDIA RTX 4500 ada	NVIDIA RTX 5000 ada
Storage	1 TB NVMe™ M.2 SSD	1 TB NVMe™ M.2 SSD	2 TB NVMe™ M.2 SSD
	2 x 4 TB M.2 SSD PCIe 5.0	2 x 4 TB NVMe™ M.2 SSD	2 x 8 TB NVMe™ M.2 SSD
Operating system (5)	Windows 11 Pro 64	Windows 11 Pro 64	Linux RHEL 8+

Stand: 01.05.2025

(1) ... 64-bit CPU supporting SSE4.2
(2) ... Hyper Threading should be deactivated.
(3) ... The number of RAM modules should correspond to the total number of memory channels available on the processor.
(4) ... NVIDIA graphics card supporting OpenGL 4.5+ and display output with 8GB+ VRAM.
(5) ... Using HPC version requires Linux RHEL 8+.

Note: The exact hardware requirements depend on the application field and individual simulation projects.

FLOW-3D®