

NVIDIA GeForce RTX 5090 32GB vs NVIDIA RTX PRO 6000 Blackwell Workstation Edition

Side by side datacenter GPU specifications from the Flopper.io database.

OVERVIEW

	NVIDIA GeForce RTX 5090 32GB	NVIDIA RTX PRO 6000 Blackwell Workstation Edition
FP32 TFLOPS	104.8	126.0
Memory	32 GB	96 GB
Memory Bandwidth	1.8 TB/s	1.8 TB/s
TDP	575 W	600 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 5090 32GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Workstation Edition peak TFLOPS (dense)
FP64	1.6	2.0
FP32	104.8	126.0
TF32	104.8	251.9
BF16	209.5	503.8
FP16	419.1	503.8
FP8	838.2	1007.6
FP6	—	—
FP4	1676.0	2015.2
INT8	838.2	1007.6

SPECIFICATIONS

	NVIDIA GeForce RTX 5090 32GB	NVIDIA RTX PRO 6000 Blackwell Workstation Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe

NVIDIA GeForce RTX 5090 32GB		NVIDIA RTX PRO 6000 Blackwell Workstation Edition
Memory Type	GDDR7	GDDR7
Interface Width	512-bit	512-bit
Interconnect	—	—
TDP	575 W	600 W
FP32 Efficiency	0.18 TFLOPS/W	0.21 TFLOPS/W