AMD Radeon RX 7900 XTX 24GB vs NVIDIA GeForce RTX 3090 24GB

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

OVERVIEW

	AMD Radeon RX 7900 XTX 24GB	NVIDIA GeForce RTX 3090 24GB
FP32 TFLOPS	**61.4**	**35.6**
Memory	**24 GB**	**24 GB**
Memory Bandwidth	**960 GB/s**	**936 GB/s**
TDP	**355 W**	**350 W**

PERFORMANCE BY PRECISION

Precision	AMD Radeon RX 7900 XTX 24GB peak TFLOPS (dense)	NVIDIA GeForce RTX 3090 24GB peak TFLOPS (dense)
FP64	–	0.6
FP32	61.4	35.6
TF32	–	35.6
BF16	–	71.0
FP16	122.8	71.0
FP8	–	–
FP6	–	–
FP4	–	–
INT8	122.8	284.0
INT4	246.0	568.0

SPECIFICATIONS

	AMD Radeon RX 7900 XTX 24GB	NVIDIA GeForce RTX 3090 24GB
Architecture	RDNA 3	Ampere
Process Node	5nm	8nm
Launch Year	2022	2020
Form Factor	PCIe	PCIe

	AMD Radeon RX 7900 XTX 24GB	NVIDIA GeForce RTX 3090 24GB
Memory Type	–	–
Interface Width	–	–
Interconnect	–	–
TDP	355 W	350 W
FP32 Efficiency	0.17 TFLOPS/W	0.10 TFLOPS/W