



NVIDIA GeForce RTX 4090 24GB vs NVIDIA L40S 48GB

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

OVERVIEW

	NVIDIA GeForce RTX 4090 24GB	NVIDIA L40S 48GB
FP32 TFLOPS	82.6	91.6
VRAM	24 GB	48 GB
Memory Bandwidth	1.0 TB/s	864 GB/s
TDP	450 W	350 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 4090 24GB peak TFLOPS (dense)	NVIDIA L40S 48GB peak TFLOPS (dense)
FP64	1.3	1.4
FP32	82.6	91.6
TF32	82.6	183.0
BF16	165.2	362.1
FP16	165.2	362.1
FP8	330.3	733.0
FP6	—	—
FP4	—	—
INT8	660.6	733.0
INT4	—	733.0

SPECIFICATIONS

	NVIDIA GeForce RTX 4090 24GB	NVIDIA L40S 48GB
Architecture	Ada Lovelace	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2022	2023
Form Factor	PCIe	PCIe
Memory Type	—	—
Interface Width	—	—

	NVIDIA GeForce RTX 4090 24GB	NVIDIA L40S 48GB
Interconnect	—	—
TDP	450 W	350 W
FP32 Efficiency	0.18 TFLOPS/W	0.26 TFLOPS/W