



NVIDIA L40 48GB vs NVIDIA GeForce RTX 4090 24GB

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

OVERVIEW

	NVIDIA L40 48GB	NVIDIA GeForce RTX 4090 24GB
FP32 TFLOPS	90.5	82.6
Memory	48 GB	24 GB
Memory Bandwidth	864 GB/s	1.0 TB/s
TDP	300 W	450 W

PERFORMANCE BY PRECISION

Precision	NVIDIA L40 48GB peak TFLOPS (dense)	NVIDIA GeForce RTX 4090 24GB peak TFLOPS (dense)
FP64	—	1.3
FP32	90.5	82.6
TF32	90.5	82.6
BF16	181.1	165.2
FP16	181.1	165.2
FP8	362.0	330.3
FP6	—	—
FP4	—	—
INT8	362.0	660.6
INT4	724.0	—

SPECIFICATIONS

	NVIDIA L40 48GB	NVIDIA GeForce RTX 4090 24GB
Architecture	Ada Lovelace	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2023	2022
Form Factor	PCIe	PCIe
Memory Type	GDDR6	—
Interface Width	—	—

	NVIDIA L40 48GB	NVIDIA GeForce RTX 4090 24GB
Interconnect	—	—
TDP	300 W	450 W
FP32 Efficiency	0.30 TFLOPS/W	0.18 TFLOPS/W