



NVIDIA L40S 48GB vs NVIDIA GeForce RTX 4090 24GB

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

OVERVIEW

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

PERFORMANCE BY PRECISION

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

SPECIFICATIONS

	NVIDIA L40S 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	—	—
Interface Width	—	—

	NVIDIA L40S 48GB	NVIDIA GeForce RTX 4090 24GB
Interconnect	—	—
TDP	350 W	450 W
FP32 Efficiency	0.26 TFL0PS/W	0.18 TFL0PS/W