NVIDIA L40 48GB vs NVIDIA RTX 2000 Ada 16GB

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

OVERVIEW

	NVIDIA L40 48GB	NVIDIA RTX 2000 Ada 16GB
FP32 TFLOPS	**90.5**	**12.0**
Memory	**48 GB**	**16 GB**
Memory Bandwidth	**864 GB/s**	**224 GB/s**
TDP	**300 W**	**70 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA L40 48GB peak TFLOPS (dense)	NVIDIA RTX 2000 Ada 16GB peak TFLOPS (dense)
FP64	—	0.2
FP32	90.5	12.0
TF32	90.5	12.0
BF16	181.1	24.0
FP16	181.1	24.0
FP8	362.0	48.0
FP6	—	—
FP4	—	—
INT8	362.0	48.0
INT4	724.0	—

SPECIFICATIONS

	NVIDIA L40 48GB	NVIDIA RTX 2000 Ada 16GB
Architecture	Ada Lovelace	Ada Lovelace
Process Node	4nm	4nm
Launch Year	2023	2024
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6
Interface Width	—	128-bit

	NVIDIA L40 48GB	NVIDIA RTX 2000 Ada 16GB
Interconnect	–	–
TDP	300 W	70 W
FP32 Efficiency	0.30 TFLOPS/W	0.17 TFLOPS/W