Groq GroqChip 1 vs NVIDIA L40 48GB

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

OVERVIEW

	Groq GroqChip 1	NVIDIA L40 48GB
FP32 TFLOPS	—	90.5
Memory	—	48 GB
Memory Bandwidth	—	864 GB/s
TDP	215 W	300 W

PERFORMANCE BY PRECISION

Precision	Groq GroqChip 1 peak TFLOPS (dense)	NVIDIA L40 48GB peak TFLOPS (dense)
FP64	—	—
FP32	—	90.5
TF32	—	90.5
BF16	—	181.1
FP16	188.0	181.1
FP8	—	362.0
FP6	—	—
FP4	—	—
INT8	750.0	362.0
INT4	—	724.0

SPECIFICATIONS

	Groq GroqChip 1	NVIDIA L40 48GB
Architecture	Tensor Streaming Processor	Ada Lovelace
Process Node	14nm	4nm
Launch Year	2019	2023
Form Factor	PCIe	PCIe
Memory Type	On-die SRAM	GDDR6
Interface Width	—	—

	Groq GroqChip 1	NVIDIA L40 48GB
Interconnect	RealScale	—
TDP	215 W	300 W
FP32 Efficiency	—	0.30 TFLOPS/W