



# NVIDIA GeForce RTX 4090 D 24GB vs NVIDIA L40 48GB

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

## OVERVIEW

|                  | NVIDIA GeForce RTX 4090 D 24GB | NVIDIA L40 48GB |
|------------------|--------------------------------|-----------------|
| FP32 TFLOPS      | 73.5                           | 90.5            |
| VRAM             | 24 GB                          | 48 GB           |
| Memory Bandwidth | —                              | 864 GB/s        |
| TDP              | 425 W                          | 300 W           |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA GeForce RTX 4090 D 24GB peak TFLOPS (dense) | NVIDIA L40 48GB peak TFLOPS (dense) |
|-----------|----------------------------------------------------|-------------------------------------|
| FP64      | 1.1                                                | —                                   |
| FP32      | 73.5                                               | 90.5                                |
| TF32      | 73.5                                               | 90.5                                |
| BF16      | 147.1                                              | 181.1                               |
| FP16      | 147.1                                              | 181.1                               |
| FP8       | 294.2                                              | 362.0                               |
| FP6       | —                                                  | —                                   |
| FP4       | —                                                  | —                                   |
| INT8      | 588.4                                              | 362.0                               |
| INT4      | —                                                  | 724.0                               |

## SPECIFICATIONS

|                 | NVIDIA GeForce RTX 4090 D 24GB | NVIDIA L40 48GB |
|-----------------|--------------------------------|-----------------|
| Architecture    | Ada Lovelace                   | Ada Lovelace    |
| Process Node    | 4nm                            | 4nm             |
| Launch Year     | 2023                           | 2023            |
| Form Factor     | PCIe                           | PCIe            |
| Memory Type     | GDDR6X                         | GDDR6           |
| Interface Width | 384-bit                        | —               |

|                 | NVIDIA GeForce RTX 4090 D 24GB | NVIDIA L40 48GB |
|-----------------|--------------------------------|-----------------|
| Interconnect    | —                              | —               |
| TDP             | 425 W                          | 300 W           |
| FP32 Efficiency | 0.17 TFLOPS/W                  | 0.30 TFLOPS/W   |