Baidu Kunlun P800 Kunlun III vs NVIDIA L40S 48GB

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

OVERVIEW

	Baidu Kunlun P800 Kunlun III	NVIDIA L40S 48GB
FP32 TFLOPS	–	**91.6**
Memory	–	**48 GB**
Memory Bandwidth	–	**864 GB/s**
TDP	–	**350 W**

PERFORMANCE BY PRECISION

Precision	Baidu Kunlun P800 Kunlun III peak TFLOPS (dense)	NVIDIA L40S 48GB peak TFLOPS (dense)
FP64	–	1.4
FP32	–	91.6
TF32	–	183.0
BF16	–	362.1
FP16	345.0	362.1
FP8	–	733.0
FP6	–	–
FP4	–	–
INT8	–	733.0
INT4	–	733.0

SPECIFICATIONS

	Baidu Kunlun P800 Kunlun III	NVIDIA L40S 48GB
Architecture	XPU-P (3rd-gen)	Ada Lovelace
Process Node	7nm	4nm
Launch Year	2024	2023
Form Factor	–	PCIe
Memory Type	GDDR6	–
Interface Width	–	–

	Baidu Kunlun P800 Kunlun III	NVIDIA L40S 48GB
Interconnect	–	–
TDP	–	350 W
FP32 Efficiency	–	0.26 TFLOPS/W