NVIDIA P100 SXM2 16GB vs NVIDIA Quadro P4000 8GB

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

OVERVIEW

	NVIDIA P100 SXM2 16GB	NVIDIA Quadro P4000 8GB
FP32 TFLOPS	**10.6**	**5.3**
Memory	**16 GB**	**8 GB**
Memory Bandwidth	**732 GB/s**	**243 GB/s**
TDP	**300 W**	**105 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA P100 SXM2 16GB peak TFLOPS (dense)	NVIDIA Quadro P4000 8GB peak TFLOPS (dense)
FP64	5.3	—
FP32	10.6	5.3
TF32	—	—
BF16	—	—
FP16	21.2	—
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	—

SPECIFICATIONS

	NVIDIA P100 SXM2 16GB	NVIDIA Quadro P4000 8GB
Architecture	Pascal	Pascal
Process Node	16nm	16nm
Launch Year	2016	2017
Form Factor	SXM	PCIe
Memory Type	HBM2	GDDR5
Interface Width	—	256-bit
Interconnect	—	—

	NVIDIA P100 SXM2 16GB	NVIDIA Quadro P4000 8GB
TDP	300 W	105 W
FP32 Efficiency	0.04 TFLOPS/W	0.05 TFLOPS/W