



NVIDIA GeForce GTX 1080 8GB vs NVIDIA Tesla P40 24GB

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

OVERVIEW

	NVIDIA GeForce GTX 1080 8GB	NVIDIA Tesla P40 24GB
FP32 TFLOPS	8.9	12.0
Memory	8 GB	24 GB
Memory Bandwidth	320 GB/s	346 GB/s
TDP	180 W	250 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce GTX 1080 8GB peak TFLOPS (dense)	NVIDIA Tesla P40 24GB peak TFLOPS (dense)
FP64	—	—
FP32	8.9	12.0
TF32	—	—
BF16	—	—
FP16	—	—
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	47.0

SPECIFICATIONS

	NVIDIA GeForce GTX 1080 8GB	NVIDIA Tesla P40 24GB
Architecture	Pascal	Pascal
Process Node	16nm	16nm
Launch Year	2016	2016
Form Factor	PCIe	PCIe
Memory Type	GDDR5X	GDDR5
Interface Width	256-bit	—
Interconnect	—	—

	NVIDIA GeForce GTX 1080 8GB	NVIDIA Tesla P40 24GB
TDP	180 W	250 W
FP32 Efficiency	0.05 TFLOPS/W	0.05 TFLOPS/W