NVIDIA Titan V 12GB vs NVIDIA V100 PCIe 32GB

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

OVERVIEW

	NVIDIA Titan V 12GB	NVIDIA V100 PCIe 32GB
FP32 TFLOPS	**14.9**	**14.0**
VRAM	**12 GB**	**32 GB**
Memory Bandwidth	**653 GB/s**	**900 GB/s**
TDP	**250 W**	**250 W**

PERFORMANCE BY PRECISION

Precision	NVIDIA Titan V 12GB peak TFLOPS (dense)	NVIDIA V100 PCIe 32GB peak TFLOPS (dense)
FP64	7.5	7.0
FP32	14.9	14.0
TF32	–	–
BF16	–	–
FP16	110.0	112.0
FP8	–	–
FP6	–	–
FP4	–	–
INT8	–	–

SPECIFICATIONS

	NVIDIA Titan V 12GB	NVIDIA V100 PCIe 32GB
Architecture	Volta	Volta
Process Node	12nm	12nm
Launch Year	2017	2018
Form Factor	PCIe	PCIe
Memory Type	HBM2	HBM2
Interface Width	3072-bit	–
Interconnect	–	–

	NVIDIA Titan V 12GB	NVIDIA V100 PCIe 32GB
TDP	250 W	250 W
FP32 Efficiency	0.06 TFLOPS/W	0.06 TFLOPS/W