AWS Trainium2 vs NVIDIA H100 SXM5 80GB

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

OVERVIEW

	AWS Trainium2	NVIDIA H100 SXM5 80GB
FP32 TFLOPS	**181.0**	**67.0**
Memory	**96 GB**	**80 GB**
Memory Bandwidth	**2.9 TB/s**	**3.4 TB/s**
TDP	–	**700 W**

PERFORMANCE BY PRECISION

Precision	AWS Trainium2 peak TFLOPS (dense)	NVIDIA H100 SXM5 80GB peak TFLOPS (dense)
FP64	–	34.0
FP64_TC Tensor Core	–	67.0
FP32	181.0	67.0
TF32	667.0	494.0
BF16	667.0	990.0
FP16	667.0	990.0
FP8	1299.0	1979.0
FP6	–	–
FP4	–	–
INT8	–	1979.0

SPECIFICATIONS

	AWS Trainium2	NVIDIA H100 SXM5 80GB
Architecture	NeuronCore-v3	Hopper
Process Node	–	4nm
Launch Year	2024	2022
Form Factor	–	SXM
Memory Type	–	–

	AWS Trainium2	NVIDIA H100 SXM5 80GB
Interface Width	–	–
Interconnect	NeuronLink-v3	–
TDP	–	700 W
FP32 Efficiency	–	0.10 TFLOPS/W