Huawei Ascend 970 vs NVIDIA B200 SXM 180GB

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

OVERVIEW

	Huawei Ascend 970	NVIDIA B200 SXM 180GB
FP32 TFLOPS	—	**75.0**
Memory	**288 GB**	**180 GB**
Memory Bandwidth	**14.4 TB/s**	**7.7 TB/s**
TDP	—	**1.0 kW**

PERFORMANCE BY PRECISION

Precision	Huawei Ascend 970 peak TFLOPS (dense)	NVIDIA B200 SXM 180GB peak TFLOPS (dense)
FP64	—	37.0
FP32	—	75.0
TF32	—	1125.0
BF16	2000.0	2250.0
FP16	2000.0	2250.0
FP8	4000.0	4500.0
FP6	—	4500.0
FP4	8000.0	9000.0
INT8	—	4500.0

SPECIFICATIONS

	Huawei Ascend 970	NVIDIA B200 SXM 180GB
Architecture	Da Vinci v5	Blackwell
Process Node	—	4nm
Launch Year	2028	2024
Form Factor	OAM	SXM
Memory Type	—	—
Interface Width	—	—
Interconnect	Unified Bus 3.0	—

	Huawei Ascend 970	NVIDIA B200 SXM 180GB
TDP	—	1.0 kW
FP32 Efficiency	—	0.07 TFLOPS/W