Apple M2 Ultra vs Apple M3 Ultra

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

OVERVIEW

	Apple M2 Ultra	Apple M3 Ultra
FP32 TFLOPS	**27.2**	**32.8**
Memory	**192 GB**	**512 GB**
Memory Bandwidth	**800 GB/s**	**819 GB/s**
TDP	–	–

PERFORMANCE BY PRECISION

Precision	Apple M2 Ultra peak TFLOPS (dense)	Apple M3 Ultra peak TFLOPS (dense)
FP64	–	–
FP32	27.2	32.8
TF32	–	–
BF16	–	–
FP16	–	–
FP8	–	–
FP6	–	–
FP4	–	–
INT8	–	–

SPECIFICATIONS

	Apple M2 Ultra	Apple M3 Ultra
Architecture	Apple M2	Apple M3
Process Node	5nm	3nm
Launch Year	2023	2025
Form Factor	SoC	SoC
Memory Type	LPDDR5	LPDDR5
Interface Width	1024-bit	–
Interconnect	–	–

	Apple M2 Ultra	Apple M3 Ultra
TDP	–	–
FP32 Efficiency	–	–