

# RTX 5090 (Blackwell) vs A100 (Ampere) Optimal Parameters

Matrix Size	RTX 5090 Optimal Stride	RTX 5090 TFLOPS	RTX 5090 vs cuBLAS	A100 Optimal Stride
512 <sup>3</sup>	8192	10.9	25.4%	1792
1024 <sup>3</sup>	2048	45.3	30.2%	1792
2048 <sup>3</sup>	6144	114.8	64.6%	1792
3072 <sup>3</sup>	4096	131.9	60.1%	1792
4096 <sup>3</sup>	512	135.7	64.1%	1792
6144 <sup>3</sup>	8192	153.4	68.0%	1792
8192 <sup>3</sup>	512	153.5	66.9%	1792
12288 <sup>3</sup>	1536	156.2	70.1%	1792
16384 <sup>3</sup>	3072	156.2	68.1%	1792