

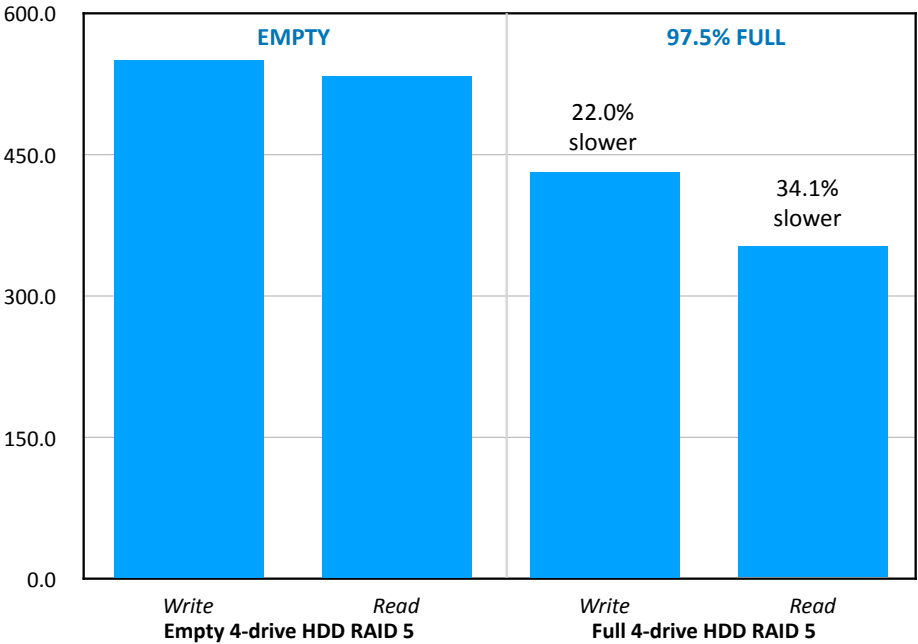
Performance Difference: Empty vs. Full 4-Drive RAID 5

	4-drive RAID 5 - TB 2 - Empty		4-Drive RAID 5 - TB 2 - Full	
	Write	Read	Write	Read
Average	550.8	532.0	429.8	350.5
Maximum	561	535	436	362
Minimum	542	528	424	340
St. Deviation	7.8	3.2	5.1	9.1
Percent Slower			22.0%	34.1%
Test 1	550	535	428	340
Test 2	561	531	436	362
Test 3	542	528	431	352
Test 4	550	534	424	348

NOTES

Speeds measured in MB/second.
All tests run on M2 Max Mac Studio (64 GB RAM, 12 CPU cores, 30 GPU cores) running macOS 15.1.1.
RAID 5 was formatted using SoftRAID with 64 KB stripes and connected via Thunderbolt 2
RAID was compared empty vs. 97.5% full
All speed tests measured using AJA System Test Lite.
Test file: 16 GB 16-bit RGB - no codecs involved.

Performance Difference: Empty vs. Full HDD 4-drive RAID 5



The fuller a hard drive is, the slower it goes.