



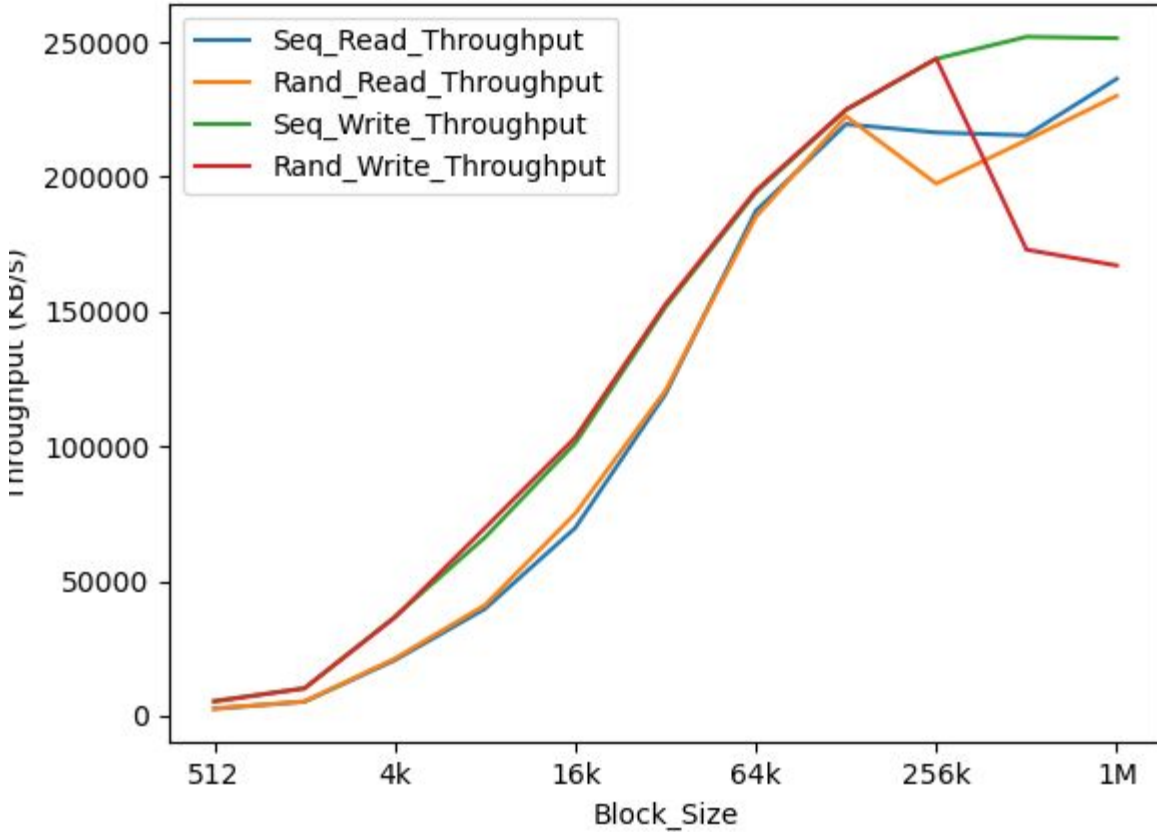
SSD Performance Research

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Wenpei Shao, Weitao Su

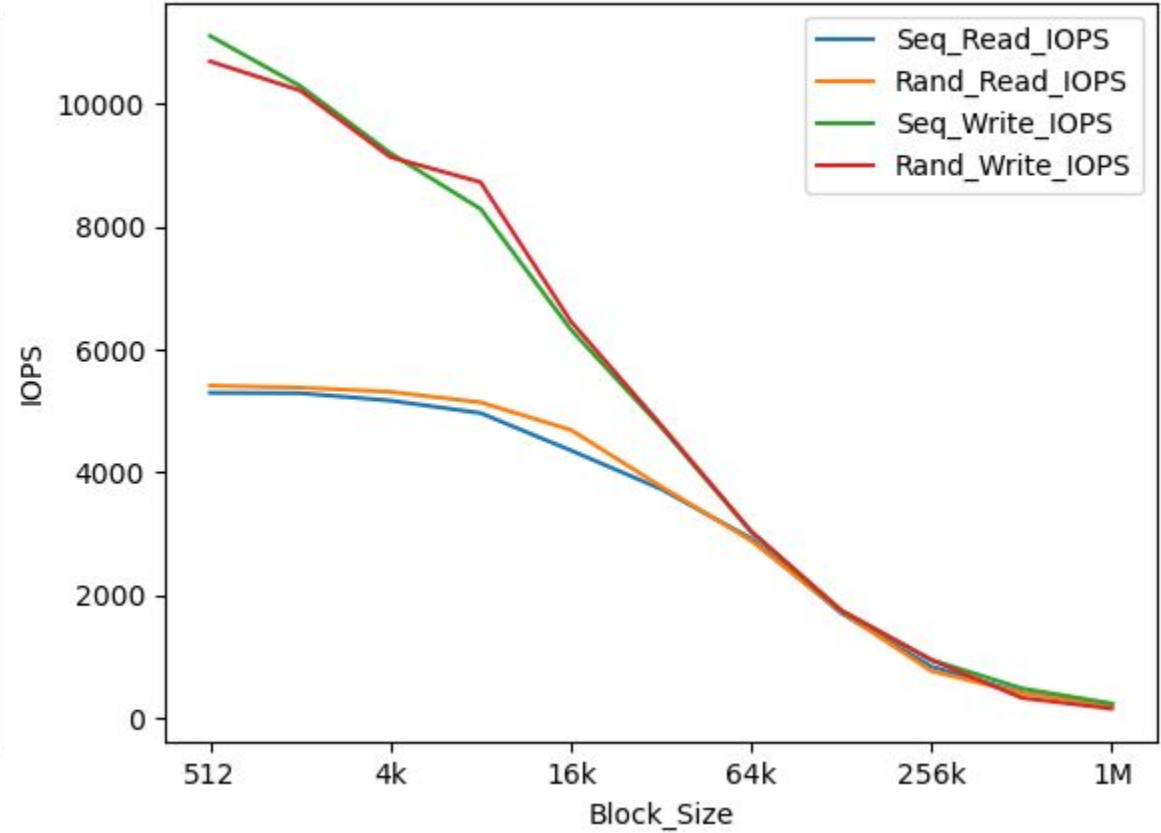


SSD Performance Drop (Block Size)

Throughput for Various Operations



IOPS for Various Operations

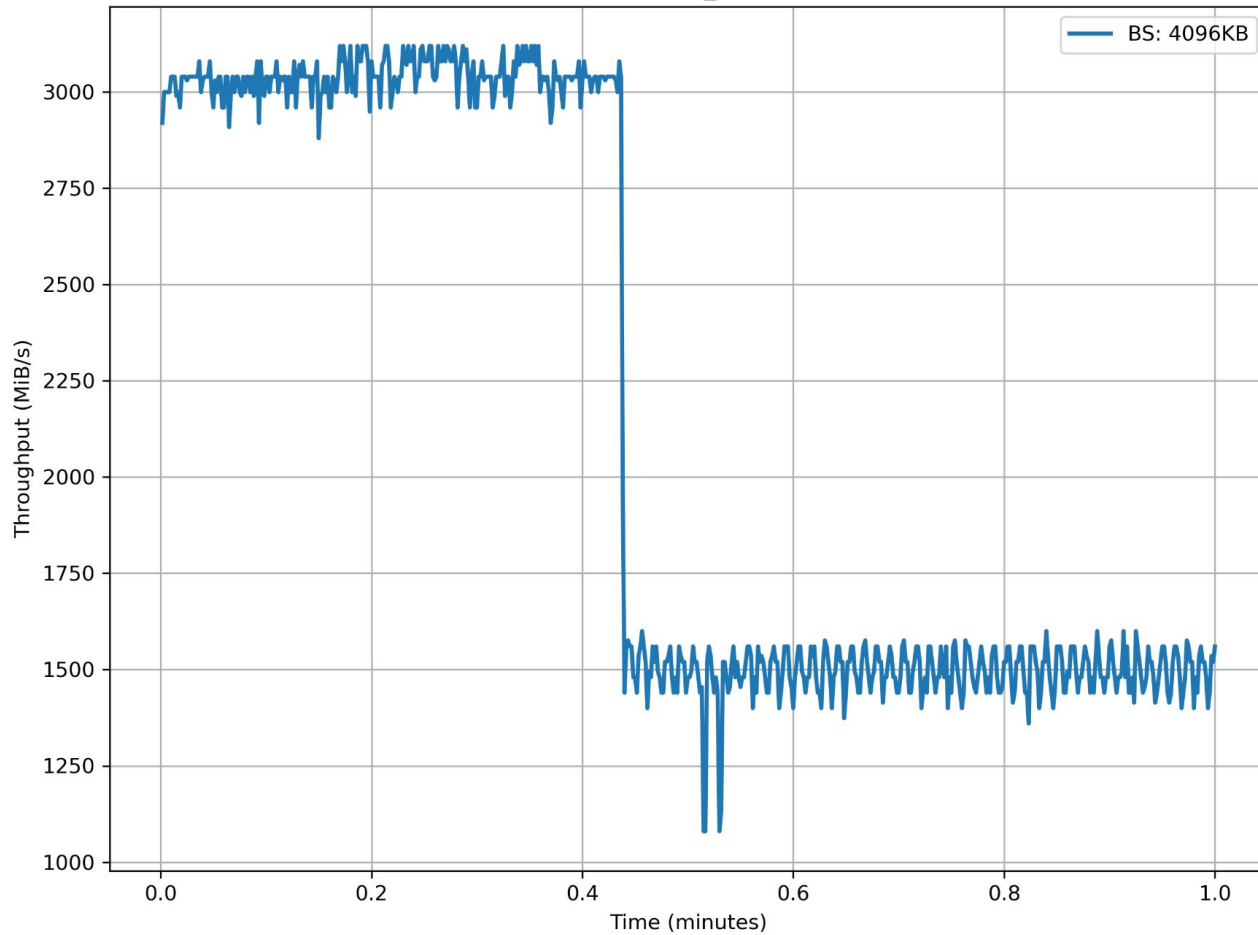




SSD Performance Drop (SLC Cache)

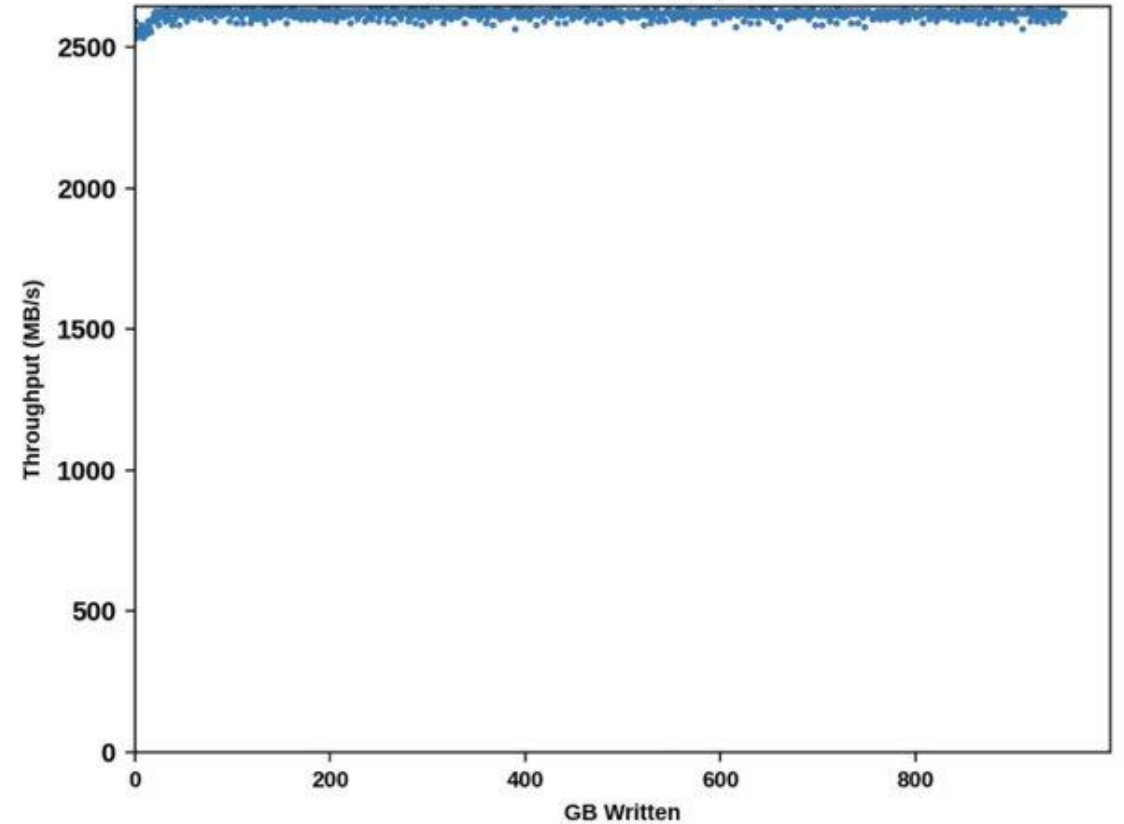
Samsung 970 EVO PLUS 2TB Price 120\$ TLC + SLC Cache

SSD Performance: Sequential_Write Throughput vs Time



Samsung 970 PRO 1TB Price 230\$ MLC

Samsung 970 PRO 1TB
Whole-Drive Sequential Write, QD32, 128kB blocks





SSD Performance Drop (garbage collection)

Random write; block size 4096 kb(4Mb); iodepth 64

