

SSD Profiling

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Joyal Mathew

Experiments

Experiments were done on a test partition using the Flexible I/O Tester (FIO).

Zero-Queue Baselines

FIO was used to generate these measurements. The following options were set to measure the zero-queue latency:

```
iodepth=1  
direct=1
```

These options ensured no queueing and direct I/O access (bypassing the OS cache).

	Read Latency (ns)	Write Latency (ns)
Random Access, 4 KiB Blocks	62.11	19.8
Sequential Access, 128 KiB Blocks	704.89	106.22

Block-Size/Pattern Sweep