



July 13, 2005

The below parameters will effect disk performance, therefore, any deviation from Sonnet's exact setup may result in discrepancies in performance.

Sonnet's Test Setup:

Hardware:

1. Disk drives - Western Digital Raptor WD740 10,000 RPM 74 GB or Seagate Barracuda 7200.8 7,200 RPM 400 GB
2. Cables - Sonnet Tempo eSATA Data Cables
3. Computer - Power Mac G5 dual 2.0 GHz (June 2003 introduction) or Power Mac G4 dual 1.0 GHz (Mirrored Drive Door)
4. RAM - 512 MB

Software:

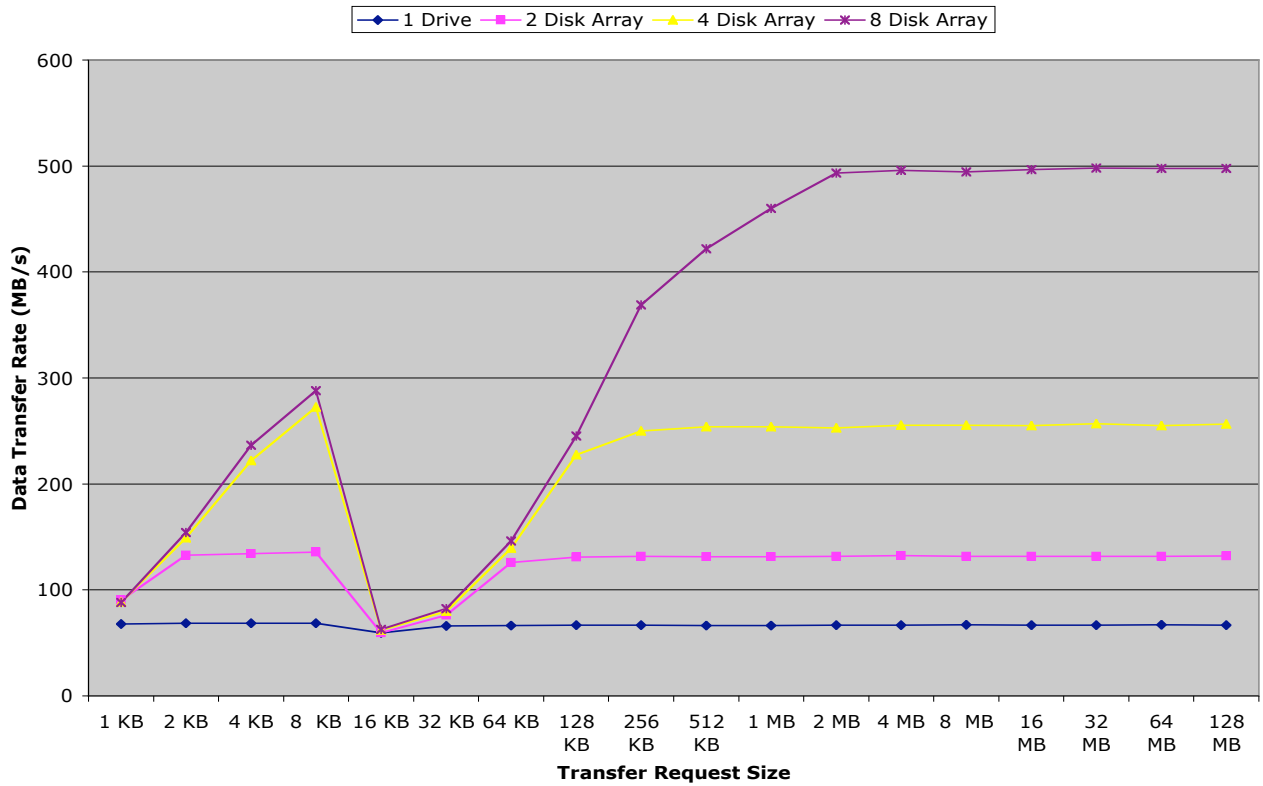
1. Benchmark program - disktester (<http://www.diglloyd.com/diglloyd/software/index.html>)
exact command `./disktester run-sequential-suite RAID`
exact command `./disktester run-sequential-suite -s 64 -t 2048 RAID`
exact command `./disktester run-area-test -T 131072 -t 2048 RAID`
notes: a) name of volume to be tested was "RAID"
b) "-t 2048" is for the one drive benchmark run
change "-t 2048" to "-t 4096" for a two drive striped array
change "-t 2048" to "-t 8192" for a four drive striped array
change "-t 2048" to "-t 16384" for a eight drive striped array
2. Using or bypassing Mac OS X file system cache - disktester default is to bypass the Mac OS X file system cache to most accurately test actual disk performance
3. Empty, erased file system - always done before each benchmark run
4. Mac OS X version - 10.4
5. Striping software - Apple's Disk Utility

Operations:

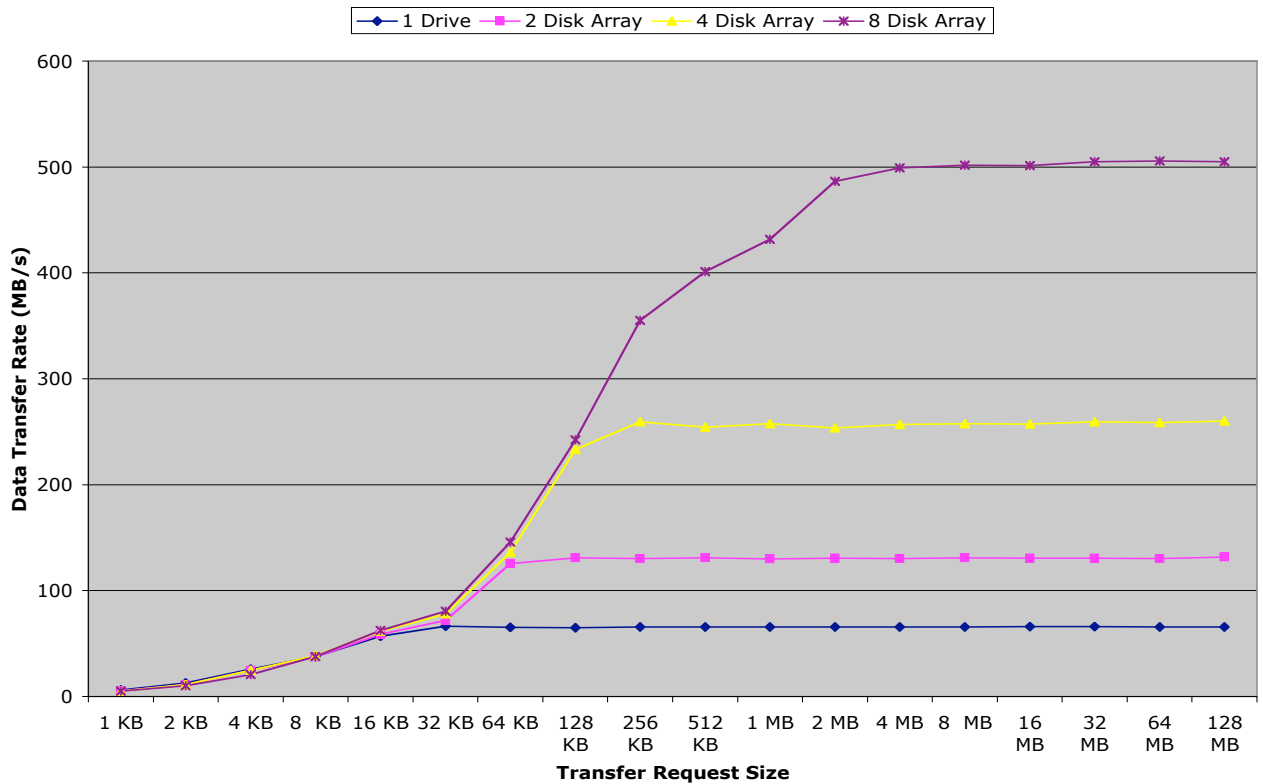
1. Transfer size of request- benchmarks display the differences
2. Area of disk drive - benchmarks display the differences
3. Write or read- benchmarks display the differences
4. Sustained sequential, burst or random seek type of transfer - only tested the sustained sequential which most closely relates to video capture and editing requirements

Seagate Barracuda 7200.8, 400GB, 7,200 RPM – PowerMac G5

Tempo-X eSATA Sustained Write Performance by Transfer Size

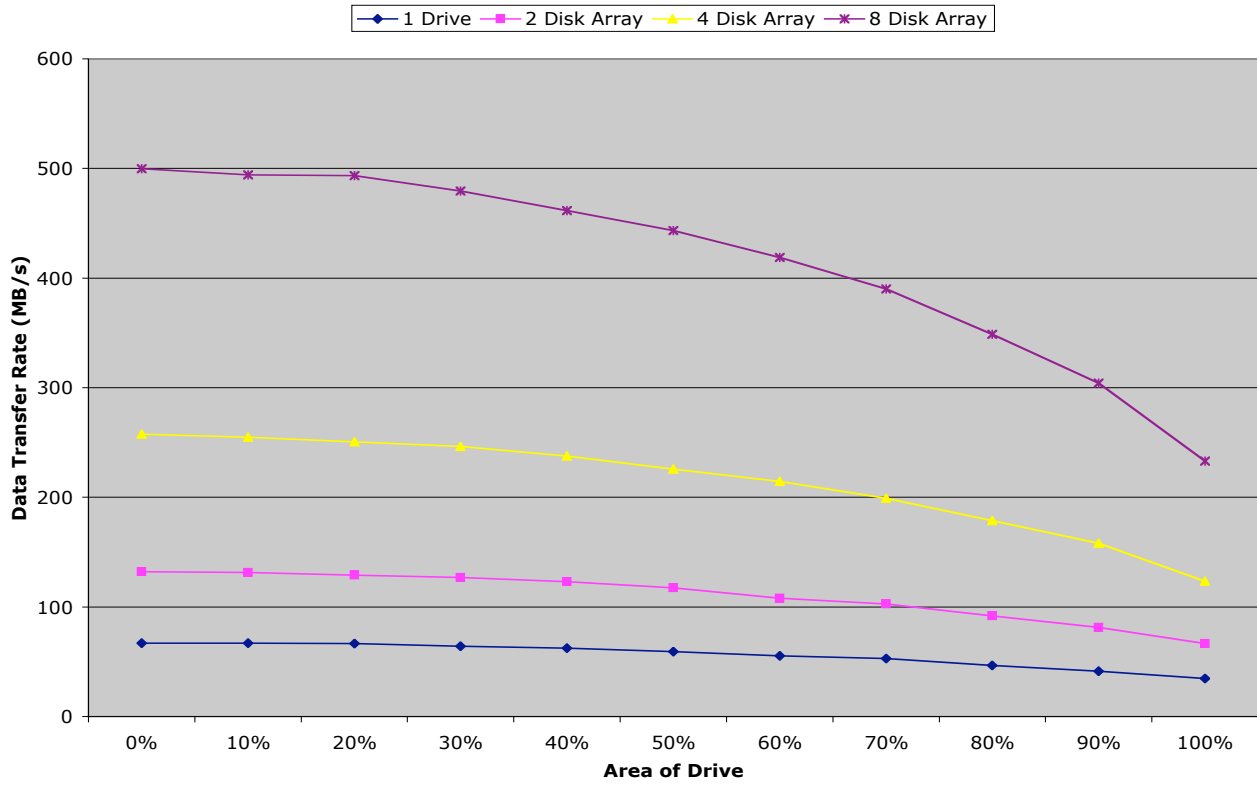


Tempo-X eSATA Sustained Read Performance by Transfer Size

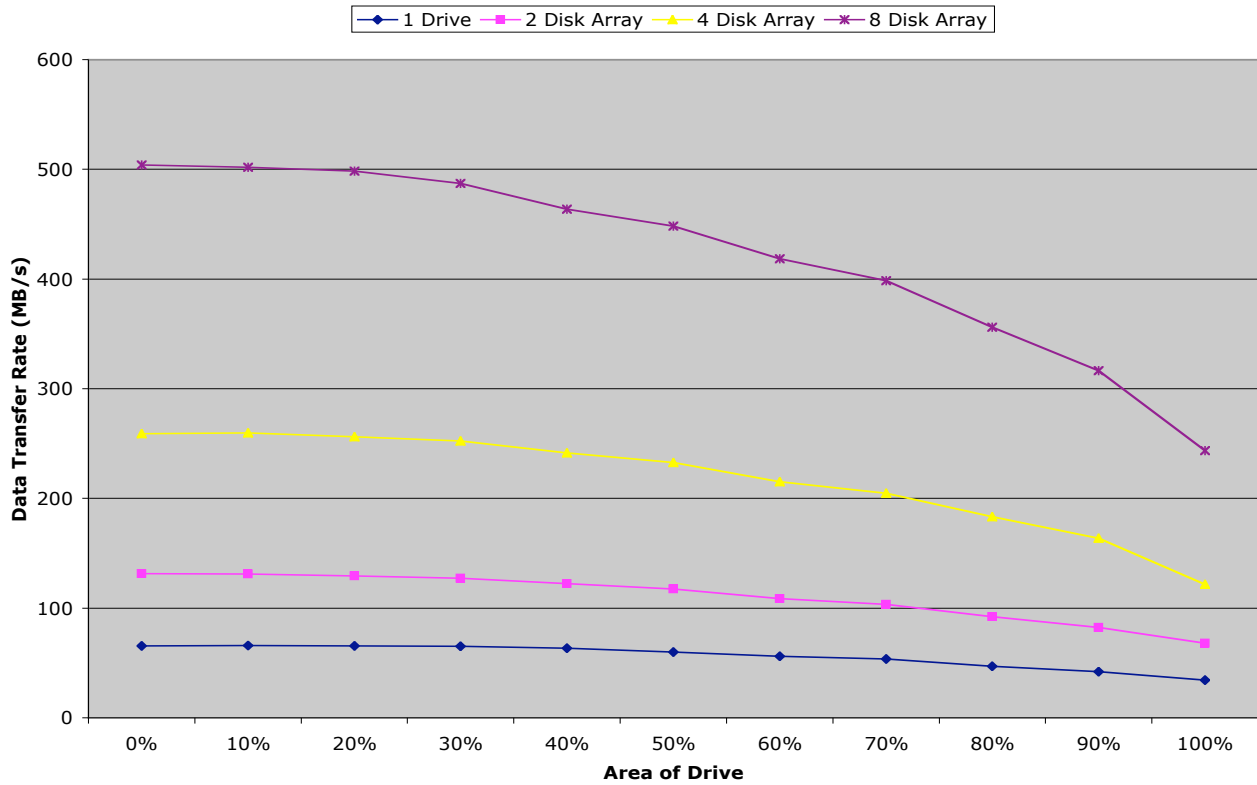


Seagate Barracuda 7200.8, 400GB, 7,200 RPM – PowerMac G5

Tempo-X eSATA Sustained Write Performance by Drive Area

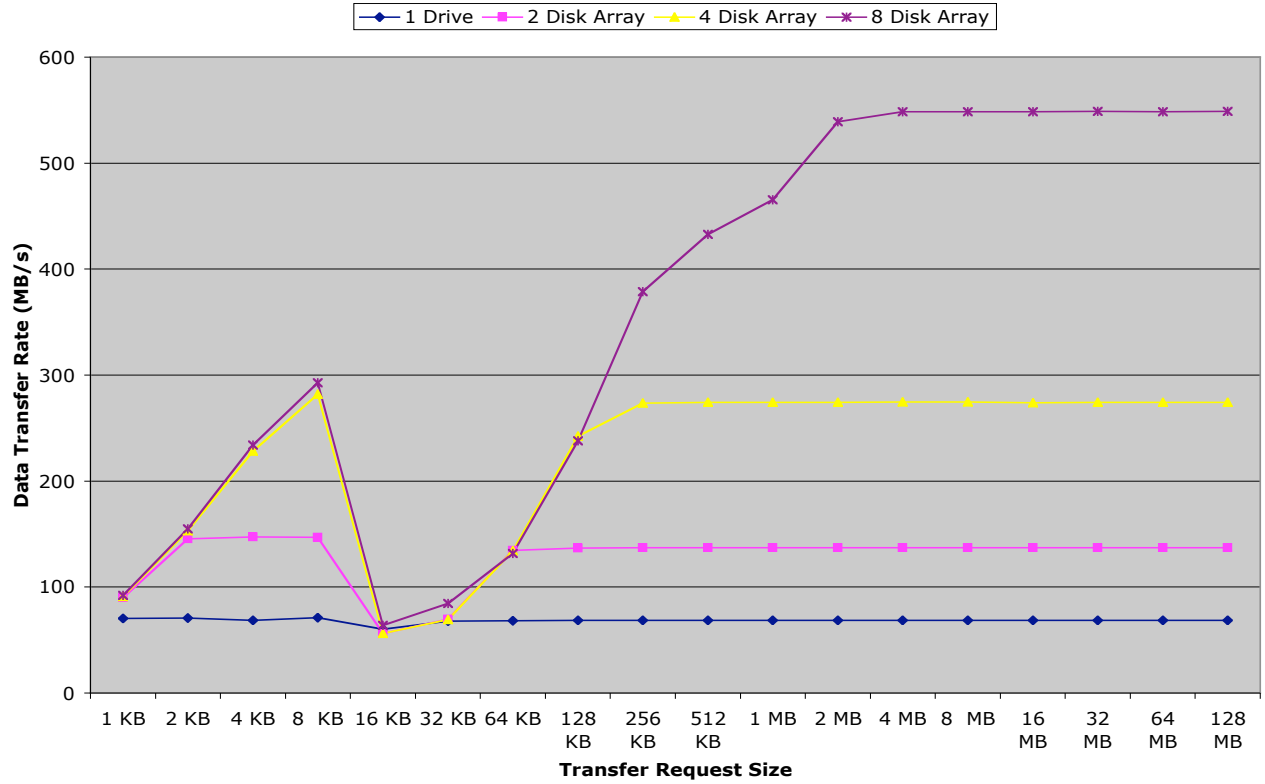


Tempo-X eSATA Sustained Read Performance by Drive Area

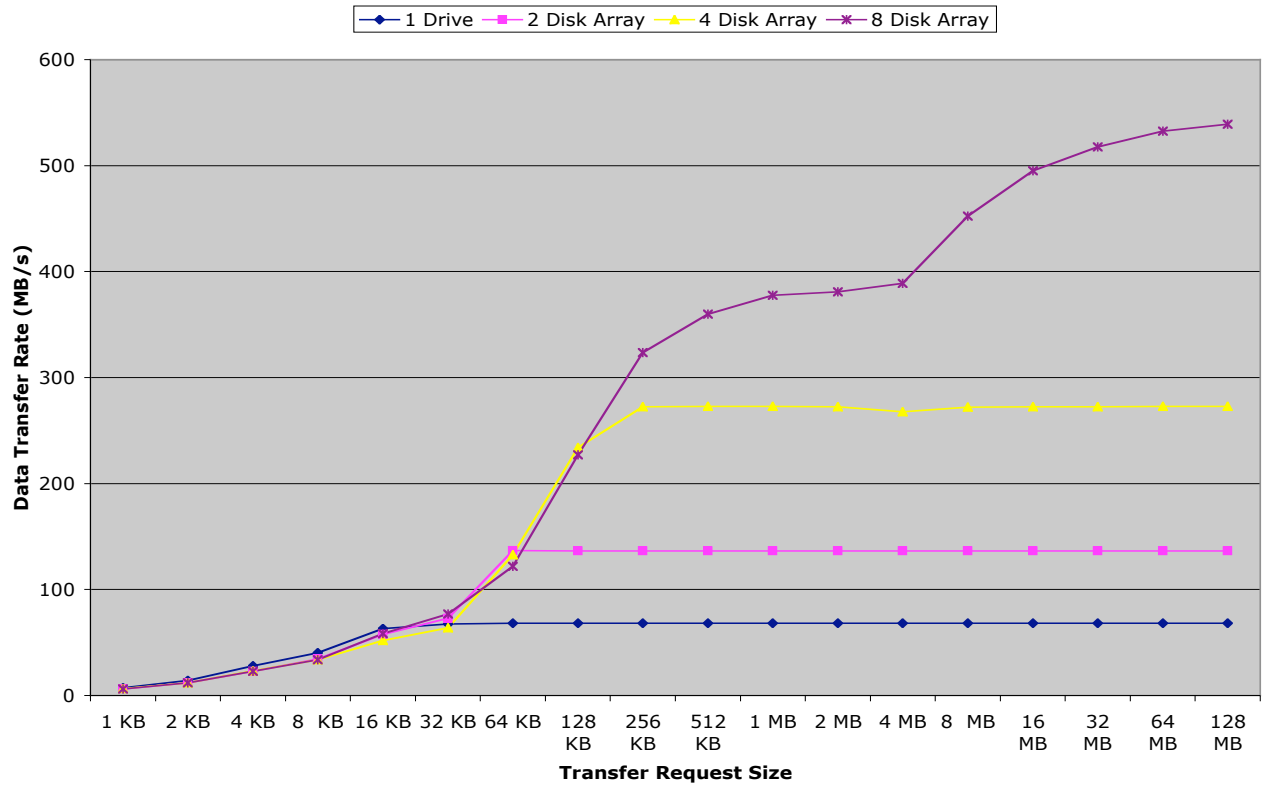


Western Digital Raptor WD740, 74GB, 10,000 RPM, PowerMac G5

Tempo-X eSATA Sustained Write Performance by Transfer Size

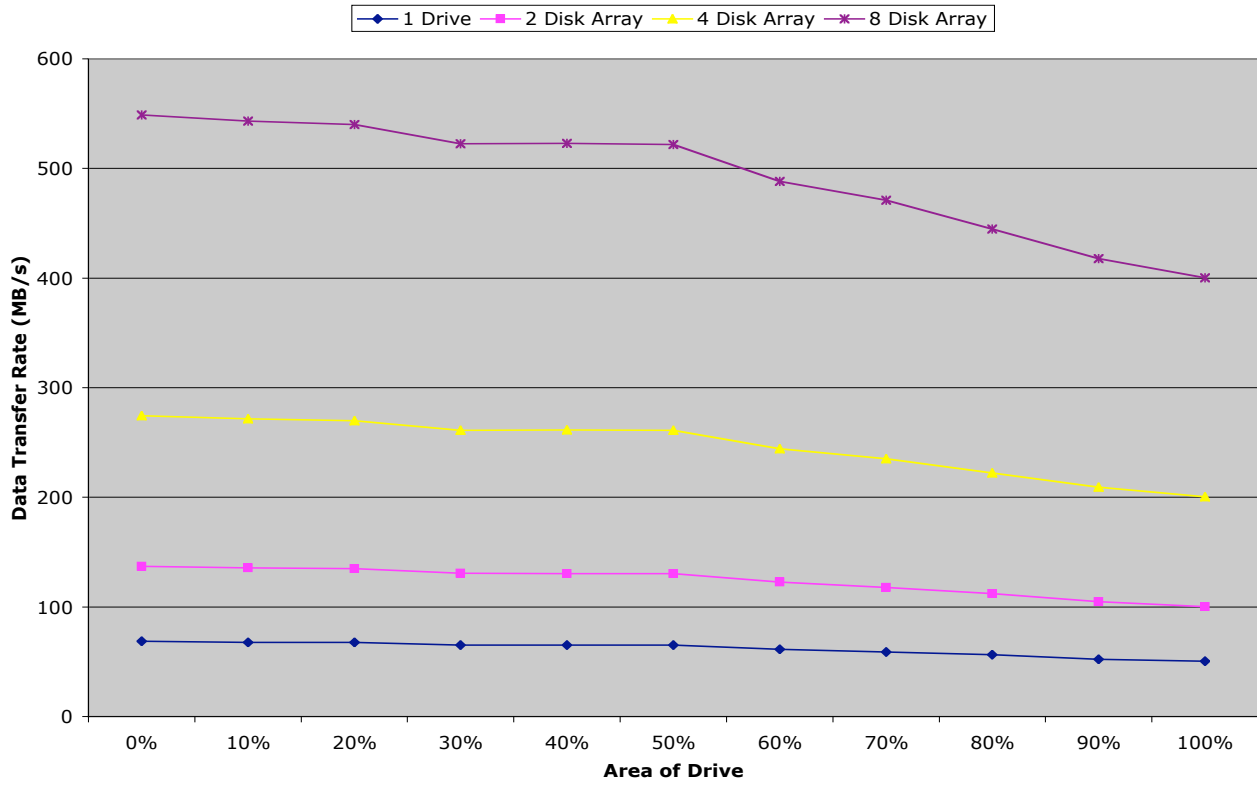


Tempo-X eSATA Sustained Read Performance by Transfer Size

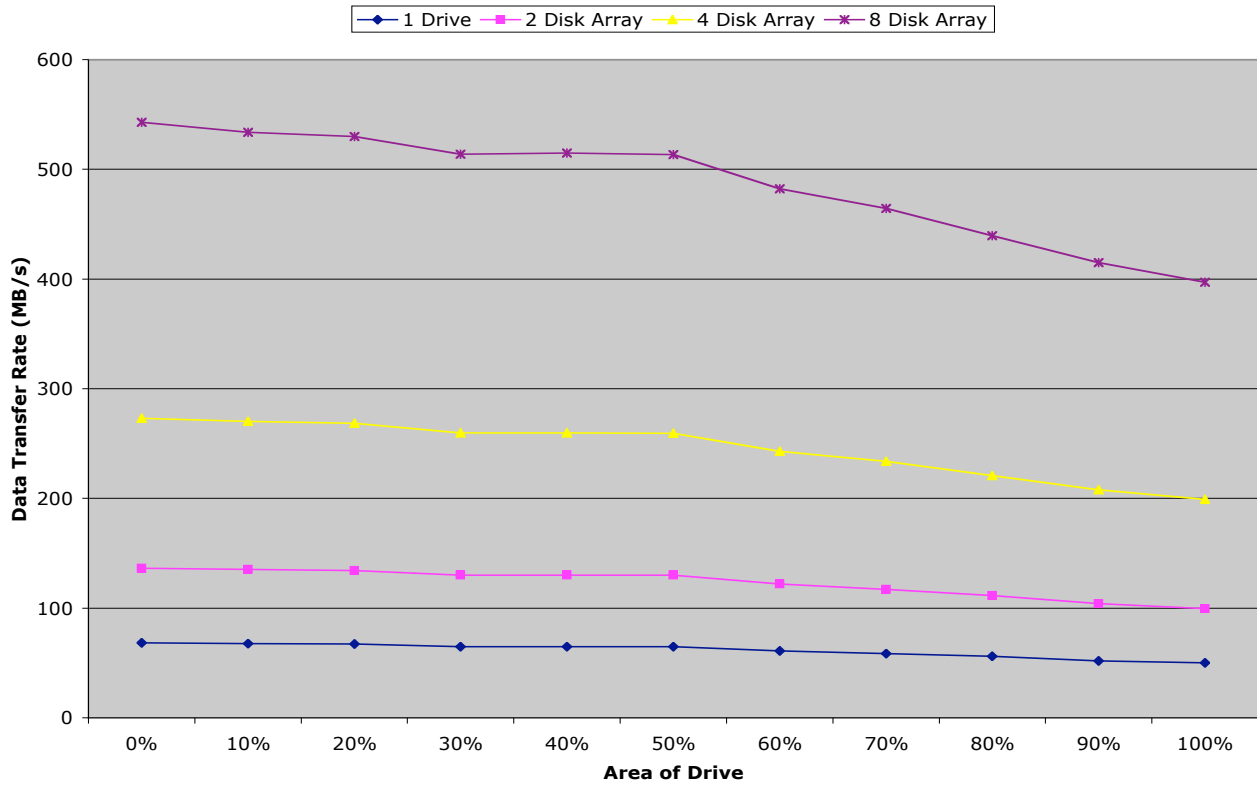


Western Digital Raptor WD740, 74GB, 10,000 RPM – PowerMac G5

Tempo-X eSATA Sustained Write Performance by Drive Area

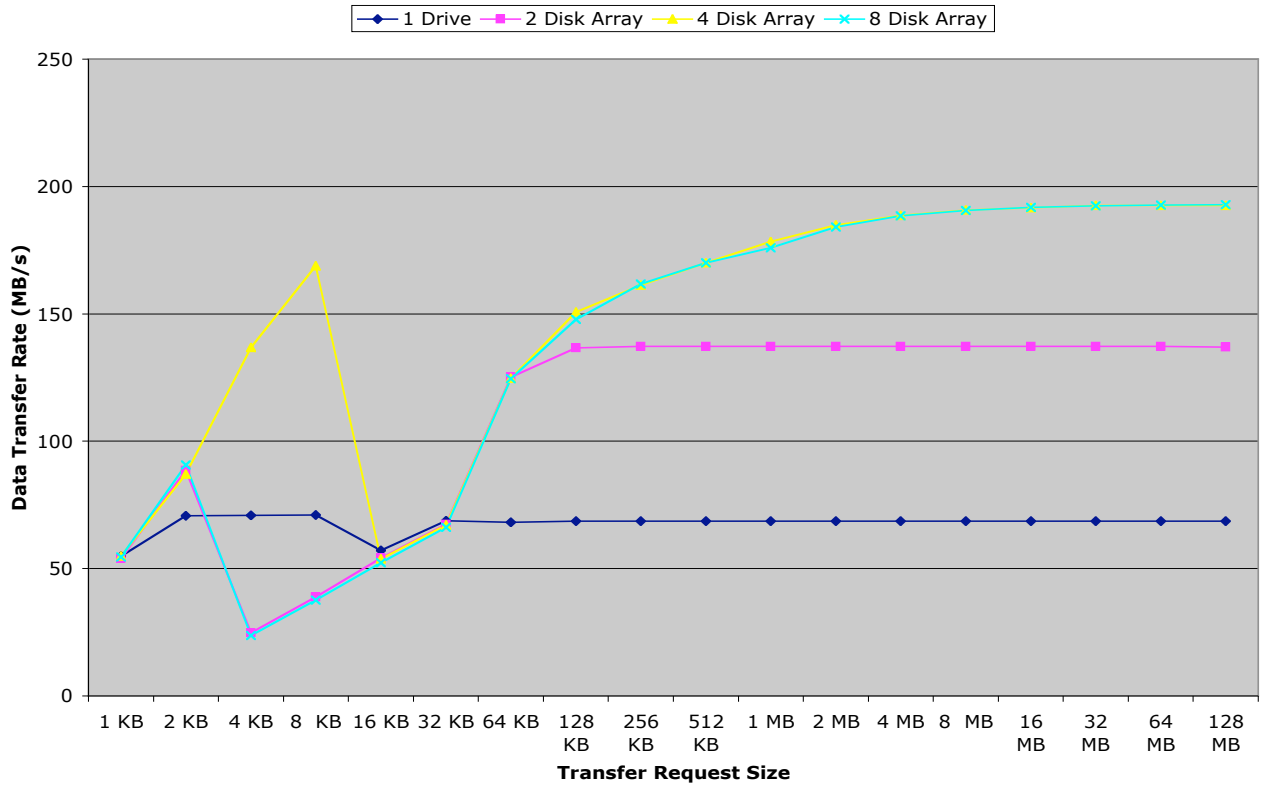


Tempo-X eSATA Sustained Read Performance by Drive Area

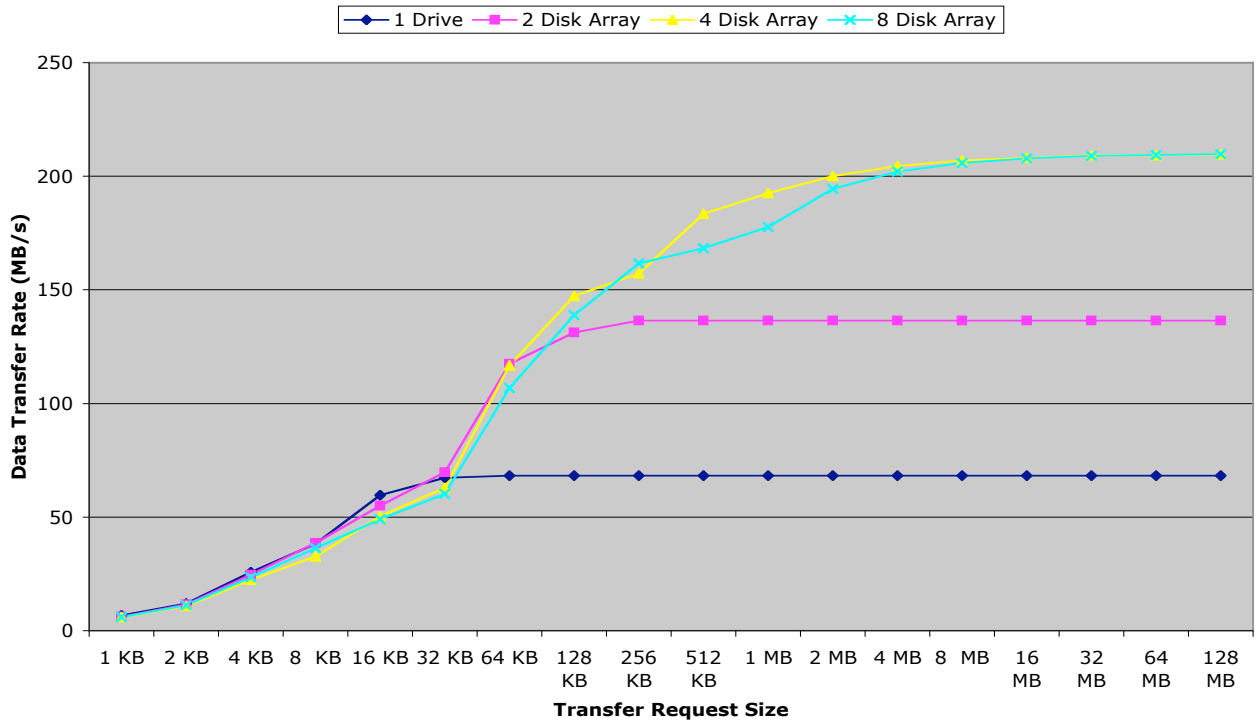


Western Digital Raptor WD740, 74GB, 10,000 RPM – PowerMac G4

Tempo-X eSATA Sustained Write Performance by Transfer Size

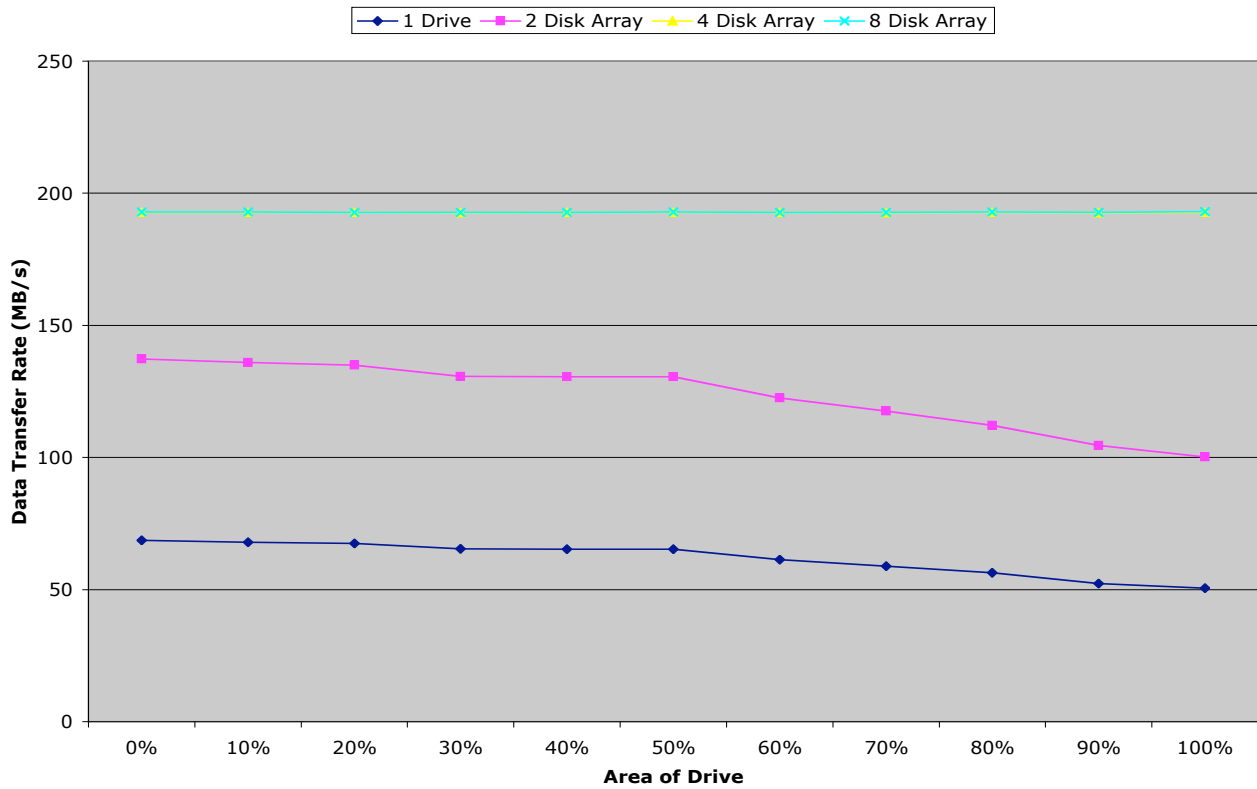


Tempo-X eSATA Sustained Read Performance by Transfer Size



Western Digital Raptor WD740, 74GB, 10,000 RPM – PowerMac G4

Tempo-X eSATA Sustained Write Performance by Drive Area



Tempo-X eSATA Sustained Read Performance by Drive Area

