

Your performance WILL vary

Worker count = 1

8/26/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

Offset: 64KB

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 4KB                             | 1         | 100% Seq 100% Read | 480                              | 300           | 9,693,936   | 38,775,744    | 0.03          | 0            | 0              | 0              | 9,693,936      | 38,775,744     | 0.03                                       | 32313                                     | 129,252  |
| 4KB                             | 2         | 60% Seq 100% Read  | 480                              | 300           | 63,384      | 253,536.0     | 4.7           | -            | -              | -              | 63,384         | 253,536.0      | 4.7  | 211                                       | 845  |
| 4KB                             | 3         | 30% Seq 100% Read  | 480                              | 300           | 36,450      | 145,800.0     | 8.2           | -            | -              | -              | 36,450         | 145,800.0      | 8.2  | 121                                       | 486  |
| 4KB                             | 4         | 0% Seq 100% Read   | 480                              | 300           | 25,778      | 103,112.0     | 11.6          | -            | -              | -              | 25,778         | 103,112.0      | 11.6                                       | 85  | 343  |
| 4KB                             | 5         | 100% Seq 60% Read  | 480                              | 300           | 49,863      | 199,452.0     | 0.0           | 33,326       | 133,304.0      | 9.0            | 83,189         | 332,756.0      | 3.6  | 277                                       | 1,109  |
| 4KB                             | 6         | 60% Seq 60% Read   | 480                              | 300           | 23,942      | 95,768.0      | 4.6           | 15,926       | 63,704.0       | 11.9           | 39,868         | 159,472.0      | 7.5  | 132                                       | 531  |
| 4KB                             | 7         | 30% Seq 60% Read   | 480                              | 300           | 17,889      | 71,556.0      | 8.1           | 11,855       | 47,420.0       | 13.0           | 29,744         | 118,976.0      | 10.1                                       | 99  | 396  |
| 4KB                             | 8         | 0% Seq 60% Read    | 480                              | 300           | 14,807      | 59,228.0      | 11.6          | 9,737        | 38,948.0       | 13.1           | 24,544         | 98,176.0       | 12.2                                       | 81  | 327  |
| 4KB                             | 9         | 100% Seq 30% Read  | 480                              | 300           | 15,544      | 62,176.0      | 0.0           | 35,644       | 142,576.0      | 8.4            | 51,188         | 204,752.0      | 5.9  | 170                                       | 682  |
| 4KB                             | 10        | 60% Seq 30% Read   | 480                              | 300           | 9,402       | 37,608.0      | 4.6           | 22,340       | 89,360.0       | 11.5           | 31,742         | 126,968.0      | 9.5  | 105                                       | 423  |
| 4KB                             | 11        | 30% Seq 30% Read   | 480                              | 300           | 8,058       | 32,232.0      | 8.1           | 18,648       | 74,592.0       | 12.6           | 26,706         | 106,824.0      | 11.2                                       | 89  | 356  |
| 4KB                             | 12        | 0% Seq 30% Read    | 480                              | 300           | 6,972       | 27,888.0      | 11.7          | 16,642       | 66,568.0       | 13.1           | 23,614         | 94,456.0       | 12.7                                       | 78  | 314  |
| 4KB                             | 13        | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 35,866       | 143,464.0      | 8.4            | 35,866         | 143,464.0      | 8.4  | 119                                       | 478  |
| 4KB                             | 14        | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 25,771       | 103,084.0      | 11.6           | 25,771         | 103,084.0      | 11.6                                       | 85  | 343  |
| 4KB                             | 15        | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 23,024       | 92,096.0       | 13.0           | 23,024         | 92,096.0       | 13.0                                       | 76  | 306  |
| 4KB                             | 16        | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 22,932       | 91,728.0       | 13.1           | 22,932         | 91,728.0       | 13.1                                       | 76  | 305  |

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Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 8KB                             | 18        | 100% Seq 100% Read | 480                              | 300           | 4,939,873   | 39,518,984    | 0.06          | 0            | 0              | 0              | 4,939,873      | 39,518,984     | 0.06                                       | 16466                                     | 131,729  |
| 8KB                             | 19        | 60% Seq 100% Read  | 480                              | 300           | 62,885      | 503,080.0     | 4.8           | -            | -              | -              | 62,885         | 503,080.0      | 4.8  | 209                                       | 1,676  |
| 8KB                             | 20        | 30% Seq 100% Read  | 480                              | 300           | 36,181      | 289,448.0     | 8.3           | -            | -              | -              | 36,181         | 289,448.0      | 8.3  | 120                                       | 964  |
| 8KB                             | 21        | 0% Seq 100% Read   | 480                              | 300           | 25,775      | 206,200.0     | 11.6          | -            | -              | -              | 25,775         | 206,200.0      | 11.6                                       | 85  | 687  |
| 8KB                             | 22        | 100% Seq 60% Read  | 480                              | 300           | 52,959      | 423,672.0     | 0.0           | 35,021       | 280,168.0      | 8.5            | 87,980         | 703,840.0      | 3.4  | 293                                       | 2,346  |
| 8KB                             | 23        | 60% Seq 60% Read   | 480                              | 300           | 23,569      | 188,552.0     | 4.7           | 15,706       | 125,648.0      | 12.1           | 39,275         | 314,200.0      | 7.6  | 130                                       | 1,047  |
| 8KB                             | 24        | 30% Seq 60% Read   | 480                              | 300           | 17,744      | 141,952.0     | 8.2           | 12,014       | 96,112.0       | 12.8           | 29,758         | 238,064.0      | 10.1                                       | 99  | 793  |
| 8KB                             | 25        | 0% Seq 60% Read    | 480                              | 300           | 14,795      | 118,360.0     | 11.7          | 9,668        | 77,344.0       | 13.2           | 24,463         | 195,704.0      | 12.3                                       | 81  | 652  |
| 8KB                             | 26        | 100% Seq 30% Read  | 480                              | 300           | 15,173      | 121,384.0     | 0.0           | 35,462       | 283,696.0      | 8.5            | 50,635         | 405,080.0      | 5.9  | 168                                       | 1,350  |
| 8KB                             | 27        | 60% Seq 30% Read   | 480                              | 300           | 9,575       | 76,600.0      | 4.6           | 22,293       | 178,344.0      | 11.5           | 31,868         | 254,944.0      | 9.4  | 106                                       | 849  |
| 8KB                             | 28        | 30% Seq 30% Read   | 480                              | 300           | 7,797       | 62,376.0      | 8.2           | 18,231       | 145,848.0      | 13.0           | 26,028         | 208,224.0      | 11.5                                       | 86  | 694  |
| 8KB                             | 29        | 0% Seq 30% Read    | 480                              | 300           | 7,023       | 56,184.0      | 11.7          | 16,519       | 132,152.0      | 13.2           | 23,542         | 188,336.0      | 12.7                                       | 78  | 627  |
| 8KB                             | 30        | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 35,784       | 286,272.0      | 8.4            | 35,784         | 286,272.0      | 8.4  | 119                                       | 954  |
| 8KB                             | 31        | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 26,415       | 211,320.0      | 11.4           | 26,415         | 211,320.0      | 11.4                                       | 88  | 704  |
| 8KB                             | 32        | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 24,012       | 192,096.0      | 12.5           | 24,012         | 192,096.0      | 12.5                                       | 80  | 640  |
| 8KB                             | 33        | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 22,801       | 182,408.0      | 13.2           | 22,801         | 182,408.0      | 13.2                                       | 76  | 608  |

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Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 16KB                            | 35        | 100% Seq 100% Read | 480                              | 300           | 2,528,880   | 40,462,080    | 0.12          | 0            | 0              | 0              | 2,528,880      | 40,462,080     | 0.12                                       | 8429                                      | 134,873  |
| 16KB                            | 36        | 60% Seq 100% Read  | 480                              | 300           | 61,130      | 978,080.0     | 4.9           | -            | -              | -              | 61,130         | 978,080.0      | 4.9  | 203                                       | 3,260  |
| 16KB                            | 37        | 30% Seq 100% Read  | 480                              | 300           | 35,930      | 574,880.0     | 8.3           | -            | -              | -              | 35,930         | 574,880.0      | 8.3  | 119                                       | 1,916  |
| 16KB                            | 38        | 0% Seq 100% Read   | 480                              | 300           | 25,544      | 408,704.0     | 11.7          | -            | -              | -              | 25,544         | 408,704.0      | 11.7                                       | 85  | 1,362  |
| 16KB                            | 39        | 100% Seq 60% Read  | 480                              | 300           | 50,994      | 815,904.0     | 0.0           | 34,406       | 550,496.0      | 8.7            | 85,400         | 1,366,400.0    | 3.5  | 284                                       | 4,554  |
| 16KB                            | 40        | 60% Seq 60% Read   | 480                              | 300           | 23,487      | 375,792.0     | 4.7           | 15,598       | 249,568.0      | 12.1           | 39,085         | 625,360.0      | 7.7  | 130                                       | 2,084  |
| 16KB                            | 41        | 30% Seq 60% Read   | 480                              | 300           | 17,695      | 283,120.0     | 8.2           | 11,872       | 189,952.0      | 13.0           | 29,567         | 473,072.0      | 10.1                                       | 98  | 1,576  |
| 16KB                            | 42        | 0% Seq 60% Read    | 480                              | 300           | 14,440      | 231,040.0     | 11.8          | 9,737        | 155,792.0      | 13.3           | 24,177         | 386,832.0      | 12.4                                       | 80  | 1,289  |
| 16KB                            | 43        | 100% Seq 30% Read  | 480                              | 300           | 15,072      | 241,152.0     | 0.0           | 35,084       | 561,344.0      | 8.5            | 50,156         | 802,496.0      | 6.0  | 167                                       | 2,674  |
| 16KB                            | 44        | 60% Seq 30% Read   | 480                              | 300           | 9,013       | 144,208.0     | 4.9           | 21,083       | 337,328.0      | 12.1           | 30,096         | 481,536.0      | 10.0                                       | 100                                       | 1,605  |
| 16KB                            | 45        | 30% Seq 30% Read   | 480                              | 300           | 7,863       | 125,808.0     | 8.2           | 18,230       | 291,680.0      | 12.9           | 26,093         | 417,488.0      | 11.5                                       | 86  | 1,391  |
| 16KB                            | 46        | 0% Seq 30% Read    | 480                              | 300           | 7,028       | 112,448.0     | 11.7          | 16,320       | 261,120.0      | 13.3           | 23,348         | 373,568.0      | 12.8                                       | 77  | 1,245  |
| 16KB                            | 47        | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 35,586       | 569,376.0      | 8.4            | 35,586         | 569,376.0      | 8.4  | 118                                       | 1,897  |
| 16KB                            | 48        | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 26,493       | 423,888.0      | 11.3           | 26,493         | 423,888.0      | 11.3                                       | 88  | 1,412  |
| 16KB                            | 49        | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 23,695       | 379,120.0      | 12.7           | 23,695         | 379,120.0      | 12.7                                       | 78  | 1,263  |
| 16KB                            | 50        | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 22,556       | 360,896.0      | 13.3           | 22,556         | 360,896.0      | 13.3                                       | 75  | 1,202  |

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STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 32KB                            | 52        | 100% Seq 100% Read | 480                              | 300           | 1,260,176   | 40,325,632    | 0.24          | 0            | 0              | 0              | 1,260,176      | 40,325,632     | 0.24                                       | 4200                                      | 134,418  |
| 32KB                            | 53        | 60% Seq 100% Read  | 480                              | 300           | 58,328      | 1,866,496.0   | 5.1           | -            | -              | -              | 58,328         | 1,866,496.0    | 5.1  | 194                                       | 6,221  |
| 32KB                            | 54        | 30% Seq 100% Read  | 480                              | 300           | 35,280      | 1,128,960.0   | 8.5           | -            | -              | -              | 35,280         | 1,128,960.0    | 8.5  | 117                                       | 3,763  |
| 32KB                            | 55        | 0% Seq 100% Read   | 480                              | 300           | 25,282      | 809,024.0     | 11.9          | -            | -              | -              | 25,282         | 809,024.0      | 11.9                                       | 84  | 2,696  |
| 32KB                            | 56        | 100% Seq 60% Read  | 480                              | 300           | 49,432      | 1,581,824.0   | 0.1           | 32,749       | 1,047,968.0    | 9.1            | 82,181         | 2,629,792.0    | 3.7  | 273                                       | 8,765  |
| 32KB                            | 57        | 60% Seq 60% Read   | 480                              | 300           | 22,811      | 729,952.0     | 4.8           | 14,811       | 473,952.0      | 12.8           | 37,622         | 1,203,904.0    | 8.0  | 125                                       | 4,013  |
| 32KB                            | 58        | 30% Seq 60% Read   | 480                              | 300           | 17,151      | 548,832.0     | 8.3           | 11,634       | 372,288.0      | 13.5           | 28,785         | 921,120.0      | 10.4                                       | 95  | 3,070  |
| 32KB                            | 59        | 0% Seq 60% Read    | 480                              | 300           | 14,298      | 457,536.0     | 11.9          | 9,539        | 305,248.0      | 13.6           | 23,837         | 762,784.0      | 12.6                                       | 79  | 2,542  |
| 32KB                            | 60        | 100% Seq 30% Read  | 480                              | 300           | 14,662      | 469,184.0     | 0.0           | 34,438       | 1,102,016.0    | 8.7            | 49,100         | 1,571,200.0    | 6.1  | 163                                       | 5,237  |
| 32KB                            | 61        | 60% Seq 30% Read   | 480                              | 300           | 8,758       | 280,256.0     | 4.9           | 20,583       | 658,656.0      | 12.5           | 29,341         | 938,912.0      | 10.2                                       | 97  | 3,129  |
| 32KB                            | 62        | 30% Seq 30% Read   | 480                              | 300           | 7,540       | 241,280.0     | 8.4           | 17,838       | 570,816.0      | 13.3           | 25,378         | 812,096.0      | 11.8                                       | 84  | 2,706  |
| 32KB                            | 63        | 0% Seq 30% Read    | 480                              | 300           | 6,913       | 221,216.0     | 11.9          | 16,118       | 515,776.0      | 13.5           | 23,031         | 736,992.0      | 13.0                                       | 76  | 2,456  |
| 32KB                            | 64        | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 35,221       | 1,127,072.0    | 8.5            | 35,221         | 1,127,072.0    | 8.5  | 117                                       | 3,756  |
| 32KB                            | 65        | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 25,601       | 819,232.0      | 11.7           | 25,601         | 819,232.0      | 11.7                                       | 85  | 2,730  |
| 32KB                            | 66        | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 23,250       | 744,000.0      | 12.9           | 23,250         | 744,000.0      | 12.9                                       | 77  | 2,480  |
| 32KB                            | 67        | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 22,168       | 709,376.0      | 13.5           | 22,168         | 709,376.0      | 13.5                                       | 73  | 2,364  |

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STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 64KB                            | 69        | 100% Seq 100% Read | 480                              | 300           | 628,758     | 40,240,512    | 0.47          | 0            | 0              | 0              | 628,758        | 40,240,512     | 0.47                                       | 2095                                      | 134,135  |
| 64KB                            | 70        | 60% Seq 100% Read  | 480                              | 300           | 53,576      | 3,428,864.0   | 5.6           | -            | -              | -              | 53,576         | 3,428,864.0    | 5.6  | 178                                       | 11,429   |
| 64KB                            | 71        | 30% Seq 100% Read  | 480                              | 300           | 33,532      | 2,146,048.0   | 8.9           | -            | -              | -              | 33,532         | 2,146,048.0    | 8.9  | 111                                       | 7,153  |
| 64KB                            | 72        | 0% Seq 100% Read   | 480                              | 300           | 24,670      | 1,578,880.0   | 12.2          | -            | -              | -              | 24,670         | 1,578,880.0    | 12.2                                       | 82  | 5,262  |
| 64KB                            | 73        | 100% Seq 60% Read  | 480                              | 300           | 43,675      | 2,795,200.0   | 0.3           | 29,630       | 1,896,320.0    | 9.7            | 73,305         | 4,691,520.0    | 4.1  | 244                                       | 15,638   |
| 64KB                            | 74        | 60% Seq 60% Read   | 480                              | 300           | 21,039      | 1,346,496.0   | 5.1           | 14,151       | 905,664.0      | 13.6           | 35,190         | 2,252,160.0    | 8.5  | 117                                       | 7,507  |
| 64KB                            | 75        | 30% Seq 60% Read   | 480                              | 300           | 16,150      | 1,033,600.0   | 8.8           | 10,873       | 695,872.0      | 14.5           | 27,023         | 1,729,472.0    | 11.1                                       | 90  | 5,764  |
| 64KB                            | 76        | 0% Seq 60% Read    | 480                              | 300           | 13,998      | 895,872.0     | 12.2          | 9,204        | 589,056.0      | 14.1           | 23,202         | 1,484,928.0    | 12.9                                       | 77  | 4,949  |
| 64KB                            | 77        | 100% Seq 30% Read  | 480                              | 300           | 14,294      | 914,816.0     | 0.1           | 32,944       | 2,108,416.0    | 9.1            | 47,238         | 3,023,232.0    | 6.4  | 157                                       | 10,077   |
| 64KB                            | 78        | 60% Seq 30% Read   | 480                              | 300           | 8,946       | 572,544.0     | 4.8           | 20,769       | 1,329,216.0    | 12.4           | 29,715         | 1,901,760.0    | 10.1                                       | 99  | 6,339  |
| 64KB                            | 79        | 30% Seq 30% Read   | 480                              | 300           | 7,464       | 477,696.0     | 8.6           | 17,411       | 1,114,304.0    | 13.6           | 24,875         | 1,592,000.0    | 12.1                                       | 82  | 5,306  |
| 64KB                            | 80        | 0% Seq 30% Read    | 480                              | 300           | 6,740       | 431,360.0     | 12.2          | 15,600       | 998,400.0      | 14.0           | 22,340         | 1,429,760.0    | 13.4                                       | 74  | 4,765  |
| 64KB                            | 81        | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 34,482       | 2,206,848.0    | 8.7            | 34,482         | 2,206,848.0    | 8.7  | 114                                       | 7,356  |
| 64KB                            | 82        | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 25,038       | 1,602,432.0    | 12.0           | 25,038         | 1,602,432.0    | 12.0                                       | 83  | 5,341  |
| 64KB                            | 83        | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 22,306       | 1,427,584.0    | 13.4           | 22,306         | 1,427,584.0    | 13.4                                       | 74  | 4,758  |
| 64KB                            | 84        | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 21,427       | 1,371,328.0    | 14.0           | 21,427         | 1,371,328.0    | 14.0                                       | 71  | 4,571  |

Your performance WILL vary

Worker count = 1

8/26/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 128KB                           | 86        | 100% Seq 100% Read | 480                              | 300           | 323,900     | 41,459,200    | 0.92          | 0            | 0              | 0              | 323,900        | 41,459,200     | 0.92                                       | 1079                                      | 138,197  |
| 128KB                           | 87        | 60% Seq 100% Read  | 480                              | 300           | 45,754      | 5,856,512.0   | 6.6           | -            | -              | -              | 45,754         | 5,856,512.0    | 6.6  | 152                                       | 19,521   |
| 128KB                           | 88        | 30% Seq 100% Read  | 480                              | 300           | 30,482      | 3,901,696.0   | 9.8           | -            | -              | -              | 30,482         | 3,901,696.0    | 9.8  | 101                                       | 13,005   |
| 128KB                           | 89        | 0% Seq 100% Read   | 480                              | 300           | 23,043      | 2,949,504.0   | 13.0          | -            | -              | -              | 23,043         | 2,949,504.0    | 13.0                                       | 76  | 9,831  |
| 128KB                           | 90        | 100% Seq 60% Read  | 480                              | 300           | 37,814      | 4,840,192.0   | 1.1           | 25,350       | 3,244,800.0    | 10.2           | 63,164         | 8,084,992.0    | 4.7  | 210                                       | 26,949   |
| 128KB                           | 91        | 60% Seq 60% Read   | 480                              | 300           | 18,825      | 2,409,600.0   | 6.0           | 12,760       | 1,633,280.0    | 14.7           | 31,585         | 4,042,880.0    | 9.5  | 105                                       | 13,476   |
| 128KB                           | 92        | 30% Seq 60% Read   | 480                              | 300           | 15,163      | 1,940,864.0   | 9.5           | 10,192       | 1,304,576.0    | 15.4           | 25,355         | 3,245,440.0    | 11.8                                       | 84  | 10,818   |
| 128KB                           | 93        | 0% Seq 60% Read    | 480                              | 300           | 13,111      | 1,678,208.0   | 12.9          | 8,609        | 1,101,952.0    | 15.2           | 21,720         | 2,780,160.0    | 13.8                                       | 72  | 9,267  |
| 128KB                           | 94        | 100% Seq 30% Read  | 480                              | 300           | 13,069      | 1,672,832.0   | 0.7           | 30,220       | 3,868,160.0    | 9.6            | 43,289         | 5,540,992.0    | 6.9  | 144                                       | 18,469   |
| 128KB                           | 95        | 60% Seq 30% Read   | 480                              | 300           | 7,589       | 971,392.0     | 5.7           | 18,414       | 2,356,992.0    | 13.9           | 26,003         | 3,328,384.0    | 11.5                                       | 86  | 11,094   |
| 128KB                           | 96        | 30% Seq 30% Read   | 480                              | 300           | 6,784       | 868,352.0     | 9.1           | 16,158       | 2,068,224.0    | 14.7           | 22,942         | 2,936,576.0    | 13.1                                       | 76  | 9,788  |
| 128KB                           | 97        | 0% Seq 30% Read    | 480                              | 300           | 6,105       | 781,440.0     | 12.9          | 14,621       | 1,871,488.0    | 15.1           | 20,726         | 2,652,928.0    | 14.5                                       | 69  | 8,843  |
| 128KB                           | 98        | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 33,167       | 4,245,376.0    | 9.0            | 33,167         | 4,245,376.0    | 9.0  | 110                                       | 14,151   |
| 128KB                           | 99        | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 23,077       | 2,953,856.0    | 13.0           | 23,077         | 2,953,856.0    | 13.0                                       | 76  | 9,846  |
| 128KB                           | 100       | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 21,027       | 2,691,456.0    | 14.3           | 21,027         | 2,691,456.0    | 14.3                                       | 70  | 8,971  |
| 128KB                           | 101       | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 20,012       | 2,561,536.0    | 15.0           | 20,012         | 2,561,536.0    | 15.0                                       | 66  | 8,538  |

Your performance WILL vary

Worker count = 1

8/26/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 256KB                           | 103       | 100% Seq 100% Read | 480                              | 300           | 159,134     | 40,738,304    | 1.88          | 0            | 0              | 0              | 159,134        | 40,738,304     | 1.88                                       | 530                                       | 135,794  |
| 256KB                           | 104       | 60% Seq 100% Read  | 480                              | 300           | 36,653      | 9,383,168.0   | 8.2           | -            | -              | -              | 36,653         | 9,383,168.0    | 8.2  | 122                                       | 31,277   |
| 256KB                           | 105       | 30% Seq 100% Read  | 480                              | 300           | 26,069      | 6,673,664.0   | 11.5          | -            | -              | -              | 26,069         | 6,673,664.0    | 11.5                                       | 86  | 22,245   |
| 256KB                           | 106       | 0% Seq 100% Read   | 480                              | 300           | 21,048      | 5,388,288.0   | 14.3          | -            | -              | -              | 21,048         | 5,388,288.0    | 14.3                                       | 70  | 17,960   |
| 256KB                           | 107       | 100% Seq 60% Read  | 480                              | 300           | 26,115      | 6,685,440.0   | 3.0           | 17,387       | 4,451,072.0    | 12.7           | 43,502         | 11,136,512.0   | 6.9  | 145                                       | 37,121   |
| 256KB                           | 108       | 60% Seq 60% Read   | 480                              | 300           | 15,960      | 4,085,760.0   | 7.9           | 10,400       | 2,662,400.0    | 16.7           | 26,360         | 6,748,160.0    | 11.4                                       | 87  | 22,493   |
| 256KB                           | 109       | 30% Seq 60% Read   | 480                              | 300           | 13,338      | 3,414,528.0   | 11.0          | 8,930        | 2,286,080.0    | 17.2           | 22,268         | 5,700,608.0    | 13.5                                       | 74  | 19,002   |
| 256KB                           | 110       | 0% Seq 60% Read    | 480                              | 300           | 11,637      | 2,979,072.0   | 14.2          | 7,736        | 1,980,416.0    | 17.4           | 19,373         | 4,959,488.0    | 15.5                                       | 64  | 16,531   |
| 256KB                           | 111       | 100% Seq 30% Read  | 480                              | 300           | 10,955      | 2,804,480.0   | 2.8           | 25,449       | 6,514,944.0    | 10.6           | 36,404         | 9,319,424.0    | 8.2  | 121                                       | 31,064   |
| 256KB                           | 112       | 60% Seq 30% Read   | 480                              | 300           | 6,846       | 1,752,576.0   | 7.8           | 15,979       | 4,090,624.0    | 15.4           | 22,825         | 5,843,200.0    | 13.1                                       | 76  | 19,477   |
| 256KB                           | 113       | 30% Seq 30% Read   | 480                              | 300           | 5,850       | 1,497,600.0   | 10.9          | 13,780       | 3,527,680.0    | 17.1           | 19,630         | 5,025,280.0    | 15.3                                       | 65  | 16,750   |
| 256KB                           | 114       | 0% Seq 30% Read    | 480                              | 300           | 5,470       | 1,400,320.0   | 14.1          | 12,985       | 3,324,160.0    | 17.2           | 18,455         | 4,724,480.0    | 16.3                                       | 61  | 15,748   |
| 256KB                           | 115       | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 30,741       | 7,869,696.0    | 9.8            | 30,741         | 7,869,696.0    | 9.8  | 102                                       | 26,232   |
| 256KB                           | 116       | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 21,147       | 5,413,632.0    | 14.2           | 21,147         | 5,413,632.0    | 14.2                                       | 70  | 18,045   |
| 256KB                           | 117       | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 18,722       | 4,792,832.0    | 16.0           | 18,722         | 4,792,832.0    | 16.0                                       | 62  | 15,976   |
| 256KB                           | 118       | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 17,667       | 4,522,752.0    | 17.0           | 17,667         | 4,522,752.0    | 17.0                                       | 58  | 15,075   |

## Your performance WILL vary

Worker count = 1

8/26/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 512KB                           | 120       | 100% Seq 100% Read | 480                              | 300           | 78,849      | 40,370,688    | 3.8           | 0            | 0              | 0              | 78,849         | 40,370,688     | 3.8  | 262                                       | 134,568  |
| 512KB                           | 121       | 60% Seq 100% Read  | 480                              | 300           | 26,948      | 13,797,376.0  | 11.1          | -            | -              | -              | 26,948         | 13,797,376.0   | 11.1                                       | 89  | 45,991   |
| 512KB                           | 122       | 30% Seq 100% Read  | 480                              | 300           | 21,560      | 11,038,720.0  | 13.9          | -            | -              | -              | 21,560         | 11,038,720.0   | 13.9                                       | 71  | 36,795   |
| 512KB                           | 123       | 0% Seq 100% Read   | 480                              | 300           | 18,492      | 9,467,904.0   | 16.2          | -            | -              | -              | 18,492         | 9,467,904.0    | 16.2                                       | 61  | 31,559   |
| 512KB                           | 124       | 100% Seq 60% Read  | 480                              | 300           | 19,244      | 9,852,928.0   | 5.4           | 13,014       | 6,663,168.0    | 15.0           | 32,258         | 16,516,096.0   | 9.3  | 107                                       | 55,053   |
| 512KB                           | 125       | 60% Seq 60% Read   | 480                              | 300           | 12,649      | 6,476,288.0   | 10.4          | 8,568        | 4,386,816.0    | 19.6           | 21,217         | 10,863,104.0   | 14.1                                       | 70  | 36,210   |
| 512KB                           | 126       | 30% Seq 60% Read   | 480                              | 300           | 10,583      | 5,418,496.0   | 13.6          | 7,176        | 3,674,112.0    | 21.7           | 17,759         | 9,092,608.0    | 16.9                                       | 59  | 30,308   |
| 512KB                           | 127       | 0% Seq 60% Read    | 480                              | 300           | 9,954       | 5,096,448.0   | 16.1          | 6,573        | 3,365,376.0    | 21.3           | 16,527         | 8,461,824.0    | 18.1                                       | 55  | 28,206   |
| 512KB                           | 128       | 100% Seq 30% Read  | 480                              | 300           | 8,175       | 4,185,600.0   | 6.0           | 18,918       | 9,686,016.0    | 13.3           | 27,093         | 13,871,616.0   | 11.1                                       | 90  | 46,238   |
| 512KB                           | 129       | 60% Seq 30% Read   | 480                              | 300           | 5,510       | 2,821,120.0   | 10.1          | 13,205       | 6,760,960.0    | 18.5           | 18,715         | 9,582,080.0    | 16.0                                       | 62  | 31,940   |
| 512KB                           | 130       | 30% Seq 30% Read   | 480                              | 300           | 4,829       | 2,472,448.0   | 13.3          | 11,307       | 5,789,184.0    | 20.8           | 16,136         | 8,261,632.0    | 18.6                                       | 53  | 27,538   |
| 512KB                           | 131       | 0% Seq 30% Read    | 480                              | 300           | 4,653       | 2,382,336.0   | 16.0          | 10,707       | 5,481,984.0    | 21.1           | 15,360         | 7,864,320.0    | 19.5                                       | 51  | 26,214   |
| 512KB                           | 132       | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 26,979       | 13,813,248.0   | 11.1           | 26,979         | 13,813,248.0   | 11.1                                       | 89  | 46,044   |
| 512KB                           | 133       | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 16,793       | 8,598,016.0    | 17.9           | 16,793         | 8,598,016.0    | 17.9                                       | 55  | 28,660   |
| 512KB                           | 134       | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 15,271       | 7,818,752.0    | 19.6           | 15,271         | 7,818,752.0    | 19.6                                       | 50  | 26,062   |
| 512KB                           | 135       | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 14,384       | 7,364,608.0    | 20.9           | 14,384         | 7,364,608.0    | 20.9                                       | 47  | 24,548   |



Your performance WILL vary

Worker count = 1

8/26/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 1024KB                          | 137       | 100% Seq 100% Read | 480                              | 300           | 42,540      | 43,560,960    | 7.05          | 0            | 0              | 0              | 42,540         | 43,560,960     | 7.05                                       | 141                                       | 145,203  |
| 1024KB                          | 138       | 60% Seq 100% Read  | 480                              | 300           | 19,164      | 19,623,936.0  | 15.7          | -            | -              | -              | 19,164         | 19,623,936.0   | 15.7                                       | 63  | 65,413   |
| 1024KB                          | 139       | 30% Seq 100% Read  | 480                              | 300           | 16,454      | 16,848,896.0  | 18.2          | -            | -              | -              | 16,454         | 16,848,896.0   | 18.2                                       | 54  | 56,162   |
| 1024KB                          | 140       | 0% Seq 100% Read   | 480                              | 300           | 14,921      | 15,279,104.0  | 20.1          | -            | -              | -              | 14,921         | 15,279,104.0   | 20.1                                       | 49  | 50,930   |
| 1024KB                          | 141       | 100% Seq 60% Read  | 480                              | 300           | 11,772      | 12,054,528.0  | 10.5          | 7,861        | 8,049,664.0    | 22.5           | 19,633         | 20,104,192.0   | 15.3                                       | 65  | 67,013   |
| 1024KB                          | 142       | 60% Seq 60% Read   | 480                              | 300           | 9,070       | 9,287,680.0   | 14.9          | 6,258        | 6,408,192.0    | 26.3           | 15,328         | 15,695,872.0   | 19.6                                       | 51  | 52,319   |
| 1024KB                          | 143       | 30% Seq 60% Read   | 480                              | 300           | 8,221       | 8,418,304.0   | 17.8          | 5,468        | 5,599,232.0    | 28.1           | 13,689         | 14,017,536.0   | 21.9                                       | 45  | 46,725   |
| 1024KB                          | 144       | 0% Seq 60% Read    | 480                              | 300           | 7,654       | 7,837,696.0   | 19.9          | 5,118        | 5,240,832.0    | 28.9           | 12,772         | 13,078,528.0   | 23.5                                       | 42  | 43,595   |
| 1024KB                          | 145       | 100% Seq 30% Read  | 480                              | 300           | 5,125       | 5,248,000.0   | 10.9          | 12,251       | 12,545,024.0   | 19.9           | 17,376         | 17,793,024.0   | 17.3                                       | 57  | 59,310   |
| 1024KB                          | 146       | 60% Seq 30% Read   | 480                              | 300           | 4,033       | 4,129,792.0   | 15.0          | 9,498        | 9,725,952.0    | 25.2           | 13,531         | 13,855,744.0   | 22.2                                       | 45  | 46,185   |
| 1024KB                          | 147       | 30% Seq 30% Read   | 480                              | 300           | 3,499       | 3,582,976.0   | 17.7          | 8,432        | 8,634,368.0    | 28.2           | 11,931         | 12,217,344.0   | 25.1                                       | 39  | 40,724   |
| 1024KB                          | 148       | 0% Seq 30% Read    | 480                              | 300           | 3,438       | 3,520,512.0   | 19.8          | 8,092        | 8,286,208.0    | 28.7           | 11,530         | 11,806,720.0   | 26.0                                       | 38  | 39,355   |
| 1024KB                          | 149       | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 16,577       | 16,974,848.0   | 18.1           | 16,577         | 16,974,848.0   | 18.1                                       | 55  | 56,582   |
| 1024KB                          | 150       | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 12,388       | 12,685,312.0   | 24.2           | 12,388         | 12,685,312.0   | 24.2                                       | 41  | 42,284   |
| 1024KB                          | 151       | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 11,115       | 11,381,760.0   | 27.0           | 11,115         | 11,381,760.0   | 27.0                                       | 37  | 37,939   |
| 1024KB                          | 152       | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 10,612       | 10,866,688.0   | 28.3           | 10,612         | 10,866,688.0   | 28.3                                       | 35  | 36,222   |

## Your performance WILL vary

Worker count = 1

8/26/2013

Note: High IO rates/transfers at 100% seq, 100% read may be locality of reference of drive level cache

STX Barracuda 3TB 7.2K 3.5" (External Raw LSI SAS HBA)

| Test / Step information section |           |                    |                                  |               | Reads       |               |               | Writes       |                |                | Totals (R+W)   |                | Overall Averages (R+W)                     |   |  |
|---------------------------------|-----------|--------------------|----------------------------------|---------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|--|---|--|
| IO Size                         | Test Step | Pattern            | Total Run Time Sec (with pauses) | Test Time Sec | Total Reads | Total Read KB | Avg Read Resp | Total Writes | Total Write KB | Avg Write Resp | Total IO (R+W) | Total KB (R+W) | STX Barracuda 3.5" 7.2K 3TB Avg Resp (R+W) | STX Barracuda 3.5" 7.2K 3TB IOP Sec (R+W) | STX Barracuda 3.5" 7.2K 3TB Bandwidth KB Sec (R+W) |
| 2048KB                          | 154       | 100% Seq 100% Read | 480                              | 300           | 19,705      | 40,355,840    | 15.21         | 0            | 0              | 0              | 19,705         | 40,355,840     | 15.21                                      | 65  | 134,519  |
| 2048KB                          | 155       | 60% Seq 100% Read  | 480                              | 300           | 12,697      | 26,003,456.0  | 23.6          | -            | -              | -              | 12,697         | 26,003,456.0   | 23.6                                       | 42  | 86,678   |
| 2048KB                          | 156       | 30% Seq 100% Read  | 480                              | 300           | 11,186      | 22,908,928.0  | 26.8          | -            | -              | -              | 11,186         | 22,908,928.0   | 26.8                                       | 37  | 76,363   |
| 2048KB                          | 157       | 0% Seq 100% Read   | 480                              | 300           | 10,862      | 22,245,376.0  | 27.6          | -            | -              | -              | 10,862         | 22,245,376.0   | 27.6                                       | 36  | 74,151   |
| 2048KB                          | 158       | 100% Seq 60% Read  | 480                              | 300           | 6,991       | 14,317,568.0  | 18.4          | 4,642        | 9,506,816.0    | 36.9           | 11,633         | 23,824,384.0   | 25.8                                       | 38  | 79,414   |
| 2048KB                          | 159       | 60% Seq 60% Read   | 480                              | 300           | 6,207       | 12,711,936.0  | 23.8          | 4,032        | 8,257,536.0    | 37.8           | 10,239         | 20,969,472.0   | 29.3                                       | 34  | 69,898   |
| 2048KB                          | 160       | 30% Seq 60% Read   | 480                              | 300           | 5,843       | 11,966,464.0  | 26.1          | 3,910        | 8,007,680.0    | 37.7           | 9,753          | 19,974,144.0   | 30.8                                       | 32  | 66,580   |
| 2048KB                          | 161       | 0% Seq 60% Read    | 480                              | 300           | 5,572       | 11,411,456.0  | 27.5          | 3,888        | 7,962,624.0    | 37.7           | 9,460          | 19,374,080.0   | 31.7                                       | 31  | 64,580   |
| 2048KB                          | 162       | 100% Seq 30% Read  | 480                              | 300           | 2,674       | 5,476,352.0   | 21.1          | 6,678        | 13,676,544.0   | 36.5           | 9,352          | 19,152,896.0   | 32.1                                       | 31  | 63,842   |
| 2048KB                          | 163       | 60% Seq 30% Read   | 480                              | 300           | 2,763       | 5,658,624.0   | 24.3          | 6,249        | 12,797,952.0   | 37.2           | 9,012          | 18,456,576.0   | 33.3                                       | 30  | 61,521   |
| 2048KB                          | 164       | 30% Seq 30% Read   | 480                              | 300           | 2,722       | 5,574,656.0   | 25.8          | 6,158        | 12,611,584.0   | 37.3           | 8,880          | 18,186,240.0   | 33.8                                       | 29  | 60,620   |
| 2048KB                          | 165       | 0% Seq 30% Read    | 480                              | 300           | 2,644       | 5,414,912.0   | 27.5          | 6,057        | 12,404,736.0   | 37.5           | 8,701          | 17,819,648.0   | 34.5                                       | 29  | 59,398   |
| 2048KB                          | 166       | 100% Seq 0% Read   | 480                              | 300           | -           | -             | -             | 8,274        | 16,945,152.0   | 36.3           | 8,274          | 16,945,152.0   | 36.3                                       | 27  | 56,483   |
| 2048KB                          | 167       | 60% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 8,106        | 16,601,088.0   | 37.0           | 8,106          | 16,601,088.0   | 37.0                                       | 27  | 55,336   |
| 2048KB                          | 168       | 30% Seq 0% Read    | 480                              | 300           | -           | -             | -             | 8,070        | 16,527,360.0   | 37.2           | 8,070          | 16,527,360.0   | 37.2                                       | 26  | 55,091   |
| 2048KB                          | 169       | 0% Seq 0% Read     | 480                              | 300           | -           | -             | -             | 8,023        | 16,431,104.0   | 37.4           | 8,023          | 16,431,104.0   | 37.4                                       | 26  | 54,770   |