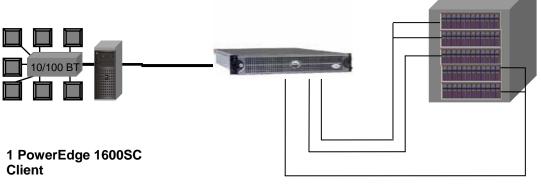
## PowerEdge 2850 Client/Server w/1 PE1600SC Front End TPC-C Rev 5.6 Report Date December 10, 2004 **Revised Date** April 14, 2006 TPC-C Throughput Price/Performance **Availability Date Total System Cost** \$40,170 26,410 tpmC \$1.53 / tpmC DEC 10, 2004 **Processors** Database OS Other Software Number of Users Manager 1 x Intel Xeon™ Windows 2003 Server Microsoft Microsoft Processors 1 Core, SQL Server 2000 Windows w/ COM+ 21,000 Standard Edition 2003 Server Internet Information 2 Threads 3.4 GHz Server 5.0 1MB L2 Cache Microsoft Visual C++ **PE2850** w/ 1 3.4 GHz Intel Xeon 1 Core, 2 Threads CPUs w/ 1MB L2 cache, 2.5GB RAM, 3 LSI MegaRAID Elite 1650 DC Controllers 6 36GB 10K RPM U320 SCSI disks 5 PV220S Disk Pods 2 Gigabit Ethernet adapters 70 18GB 15K RPM U320 SCSI Disks



| System Component    | Server  |   |   | Each Client  |  |  |  |  |
|---------------------|---------|---|---|--|--|--|--|--|
| Processors<br>Cache | 1       | Intel Xeon 1 Core, 2 Threads @ 3.4GHz 1MB cache | 2 | Intel Xeon 2 Core, 4 Threads w/ 512 KB L2 Client @ 2.4 GHz |  |  |  |  |
| Memory              |         | 2560 MB   |   | 1024 MB  |  |  |  |  |
| Disk Controllers    | 3       | LSI MegaRAID Elite 1650 DC<br>Controller        | 1 | Adaptec On-Board   |  |  |  |  |
| Disk Drives         | 70<br>6 | 18 GB SCSI<br>36 GB SCSI                        | 1 | 36 GB  |  |  |  |  |
| Total Storage       |         | 1400 GB   |   | 36 GB  |  |  |  |  |
| Other               | 1       | 2GB NIC<br>CD-ROM                               | 2 | 10/100MB BT NIC  |  |  |  |  |

| Dell  | PowerEdge 2850        |                           |                 |                 |                | TPC-C REV 5.<br>PAGE 2 OF 3             |                       |  |
|---|-----------------------|---------------------------|-----------------|-----------------|----------------|---|-----------------------|--|
|   | color                 | Client/Server             |                 | Report Date     | e: 10-Decer    | : 10-December-04 Revised April 14, 2006 |                       |  |
| Description   | Part Number           | Third Party               |                 | Unit Price      | Qty            | Extended<br>Price                       | 3 уг. Maint.<br>Price |  |
| Server Hardware   |                       | Brand                     | Pricing         |                 |                |   | 7301773270            |  |
| Dell PowerEdge 2800 3.6GHz XEON w/2MB L2 cache,           | 221-5965              |                           |                 | \$1,715.00      | 1              | \$1,715.00                              | \$290.00              |  |
| 800MHZ FSB, 2 onboard Gigabit NICs                        |                       |                           |                 |                 |                |   |                       |  |
| 2GB DDR2 400MHz(4X512MB),1R                               | 311-3591              |                           |                 | \$849.00        | 1              | \$849.00                                |                       |  |
| 512MB DDR2 400MHz(2X256MB),1R                             | 311-3585              |                           |                 | \$299.00        | 1              | \$299.00                                |                       |  |
| Dell E773,17 in Gray (16.0 VIS)                           | 320-2907              |                           |                 | \$135.00        | 1              | \$135.00                                |                       |  |
|   |                       |                           |                 |                 | Subtotal       | \$2,998.00                              | \$290.00              |  |
| 3rd Party Raid Controllers                                |                       |                           |                 |                 |                |   |                       |  |
| LSI MegaRAID Elite 1650 2-ch SCSI                         | 4942510264A           | LSI                       | 3               | \$999.00        | 5              | \$4,995.00                              |                       |  |
| PowerVault Disk Subsystem                                 |                       |                           |                 |                 |                |   |                       |  |
| PV220S, U3, PS, Tower                                     | 220-4477, etc.        |                           |                 | \$955.00        | 5              | \$4,775.00                              | \$2,005.0             |  |
| ZEMM,U320,PV22XS,SINGLE                                   | 340-9324              |                           |                 | \$399.00        | 5              | \$1,995.00                              |                       |  |
| 600W,PWR SPLY,PV22XS                                      | 310-0677              |                           |                 | \$0.00          | 5              | \$0.00                                  |                       |  |
| 600W,PWR SPLY,PV22XS                                      | 310-0683              |                           |                 | \$89.00         | 5              | \$445.00                                |                       |  |
| 36GB U320M SCSI 15K RPM Hard Drive                        | 340-9472              |                           |                 | \$249.00        | 70             | \$17,430.00                             |                       |  |
| 36GB U320M SCSI 15K RPM Hard Drive (OS+LOG)               | 340-9370              |                           |                 | \$249.00        | 6              | \$1,494.00                              |                       |  |
|   |                       |                           |                 |                 | Subtotal       | \$26,139.00                             | \$2,005.00            |  |
| Server Software   |                       |                           |                 |                 |                |   |                       |  |
| SQL Workgroup, Per processor licensing **                 | 228-01079             | Microsoft                 | 1               | \$4,999.00      | 1              | \$4,999.00                              |                       |  |
| Windows 2003 Standard Server **                           | P73-00295             | Microsoft                 | 1               | \$738.00        | 1              | \$738.00                                |                       |  |
| Professional Support (1 Incident)                         |                       | Microsoft                 | 1               | \$245.00        | 1              |   | \$245.00              |  |
| Client Hardware   |                       |                           | 1               |                 | Subtotal       | \$5,737.00                              | \$245.0               |  |
| Dell PowerEdge 1600SC, 2.4 GHz / 512KB L2/400 FSB         | 221-2207              |                           |                 | \$227.00        | 1              | \$227.00                                | \$290.00              |  |
| Additional processor , 2.4 GHz / 512KB                    | 311-2456              |                           |                 | \$599.00        | 1              | \$599.00                                |                       |  |
| 1025MB RAM, 2 DIMMs                                       | 311-1940              |                           |                 | \$548.00        | 1              | \$548.00                                |                       |  |
| 36GB U160M SCSI 10K RPM Hard Drive                        | 340-7087              |                           |                 | \$249.00        | 1              | \$249.00                                |                       |  |
| Non-Redundant Power                                       | 310-1866              |                           |                 | \$199.00        | 1              | \$199.00                                |                       |  |
| IntelPro 100S   | 430-0369              |                           |                 | \$59.00         | 1              | \$59.00                                 |                       |  |
| Dell E773,17 in Gray (16.0 VIS)                           | 320-2907              |                           |                 | \$135.00        | 1              | \$135.00                                |                       |  |
| 20112113 <sub>1</sub> 11 11 014y (10.0 415)               | 320-2301              |                           |                 | \$100.00        | Subtotal       | \$2,016.00                              | \$290.0               |  |
| Client Software   |                       |                           |                 |                 |                |   |                       |  |
| Windows 2003 Standard Server **                           | P73-00295             | Microsoft                 | 1               | \$738.00        | 1              | \$738.00                                |                       |  |
| Visual C++ ** .NET  | 254-00170             | Microsoft                 | 1               | \$109.00        | 1              | \$109.00                                |                       |  |
|   |                       |                           |                 |                 | Subtotal       | \$847.00                                |                       |  |
| User Connectivity   |                       |                           |                 |                 | 1              |   |                       |  |
| 7ft Crossover cable                                       | CBLC5C7               | LanAdapter                | 2               | \$2.00          | 3              | \$6.00                                  |                       |  |
|   |                       |                           |                 |                 | Subtotal       | \$6.00                                  |                       |  |
| All hardware and maintenance components from Dell are     | discounted 16% bas    | ed on total dollar volume | of this config  | uration. Other  | Discounts      | \$5,398.08                              |                       |  |
| **  |                       |                           | _               |                 | Total USD      | \$37,340                                | \$2,830               |  |
| Notes: * Maint. included in PowerVault 220S disk pod or F | V650F/630F fibre ch   | annel disk pod            |                 | Three-Yea       |                | wnership USD:                           | \$40,170              |  |
| ** All Microsoft maintenance is covered by the maintenan  | ce costs of Microsoff | t SQL Server              |                 |                 |                |   |                       |  |
| *** 10% or minimum 2 spares are added in place of onsite  | service (products h   | ave a five year           |                 |                 |                | tpmC Rating:                            | 26410                 |  |
| return-to-vendor warranty) Pricing: 1 - Microsoft 2       | - LanAdapter 3 - LSI  |                           |                 |                 |                |   |                       |  |
| Pricing may be verified by calling 1-800-BUY-DELL and re  | eferencing quote #19  | 90341430 as a complex o   | uote.           |                 | 1              |   |                       |  |
| Audited by Lorna Livingtree, Performance Metrics          |                       |                           |                 |                 | USD\$ /tpmC:   | 1.53                                    |                       |  |
| Prices used in TPC benchmarks reflect the actual price    | s a customer would ;  | pay for a one-time purch  | ase of the sta  | ted component   | s. Individual. | ly negotiated                           |                       |  |
| discounts are not permitted. Special prices based on as   | sumptions about pa    | st or future purchases ar | re not permitte | ed. All discoun | ts reflect sta | ndard pricing poli                      | cies                  |  |
| for the listed components. For complete details, see the  |                       |                           |                 |                 |                |   | SAS IS                |  |

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|--|-------------------------------|-------------|-------|--------------|------------------|-----------|--|--|
| MQTh, computed Maximum Qualified Throughp                                | put                           |             |       |              | 26,41            | 10 tpmC   |  |  |
|  |                               |             |       |              |                  |           |  |  |
| Response Times (in seconds)  |                               |             | ΙΔνε  | rage         | 90 <sup>th</sup> | Max       |  |  |
| - Neworder   |                               |             |       | .32          |                  |           |  |  |
| - Payment  |                               |             |       | .15          | 0.43             | 4.62      |  |  |
|  |                               |             |       | .13          | 0.19             | 1.85      |  |  |
| - Delivery (interactive portion)   |                               |             |       | .34          | 0.11<br>2.87     | 1.15      |  |  |
|  | - Stock-Level                 |             |       |              |                  | 7.59      |  |  |
|  | - Order Status                |             |       |              |                  | 4.60      |  |  |
|  | - Delivery (deferred portion) |             |       |              |                  | 2.84      |  |  |
| - Menu   | 0.                            | .11         | 0.11  | 1.16         |                  |           |  |  |
| Despense time delay added for amulated comp                              | ononto                        |             |       |              |                  | 100u 0 1  |  |  |
| Response time delay added for emulated comp                              | onents                        |             |       |              |                  | Menu 0.1  |  |  |
|  |                               |             |       |              | Г                | Resp 0.1  |  |  |
| Transaction Miss in nevert of total transactions                         |                               |             |       |              |                  |           |  |  |
| Transaction Mix, in percent of total transaction                         | 1S                            |             |       |              |                  |           |  |  |
| - New-Order  |                               |             |       |              |                  |           |  |  |
| - Payment  |                               |             |       |              |                  | 44.91%    |  |  |
| - Delivery   |                               |             |       |              |                  | 43.02%    |  |  |
| - Stock-Level  |                               |             |       |              |                  | 4.04%     |  |  |
| - Order-Status   |                               |             |       | 4.02%        |                  |           |  |  |
|  | ۸۷۵                           | rogo        | N.    | 4.01%<br>Max |                  |           |  |  |
| Keying/Think Times (in seconds), - New-Order                             | Min                           |             |       | Average      |                  |           |  |  |
|  | 18.02                         | 0.0         | 18.03 | 12.05        |                  | 120.41    |  |  |
| - Payment  | 3.01                          | 0.0         | 3.03  | 12.04        | 3.91             | 120.41    |  |  |
| - Delivery   | 2.02                          | 0.0         | 2.03  | 5.04         | 2.91             | 50.40     |  |  |
| - Stock-Level  | 2.02                          | 0.0         | 2.03  | 5.05         | 2.91             | 50.41     |  |  |
| - Order-Status   | 2.02                          | 0.0         | 2.03  | 10.03        | 2.91             | 100.40    |  |  |
|  |                               |             |       |              |                  |           |  |  |
|  |                               |             |       |              |                  |           |  |  |
| Test Duration  |                               |             |       |              |                  |           |  |  |
| - Ramp-up time   |                               |             |       |              | 10               | ) minutes |  |  |
| - Measurement interval   |                               | 120 minutes |       |              |                  |           |  |  |
| - Measurement Interval 120 minu - Number of checkpoints                  |                               |             |       |              |                  | 4         |  |  |
| ·  |                               |             |       |              |                  |           |  |  |
| - Checkpoint interval  |                               |             |       |              | 30               | minutes   |  |  |
| Number of transactions (all types)     completed in measurement interval |                               |             |       |              | 7                | ,341,150  |  |  |
| completed in measurement interval  |                               |             |       |              | ,                | ,541,150  |  |  |
|  |                               |             |       |              |                  |           |  |  |
|  |                               |             |       |              |                  |           |  |  |