
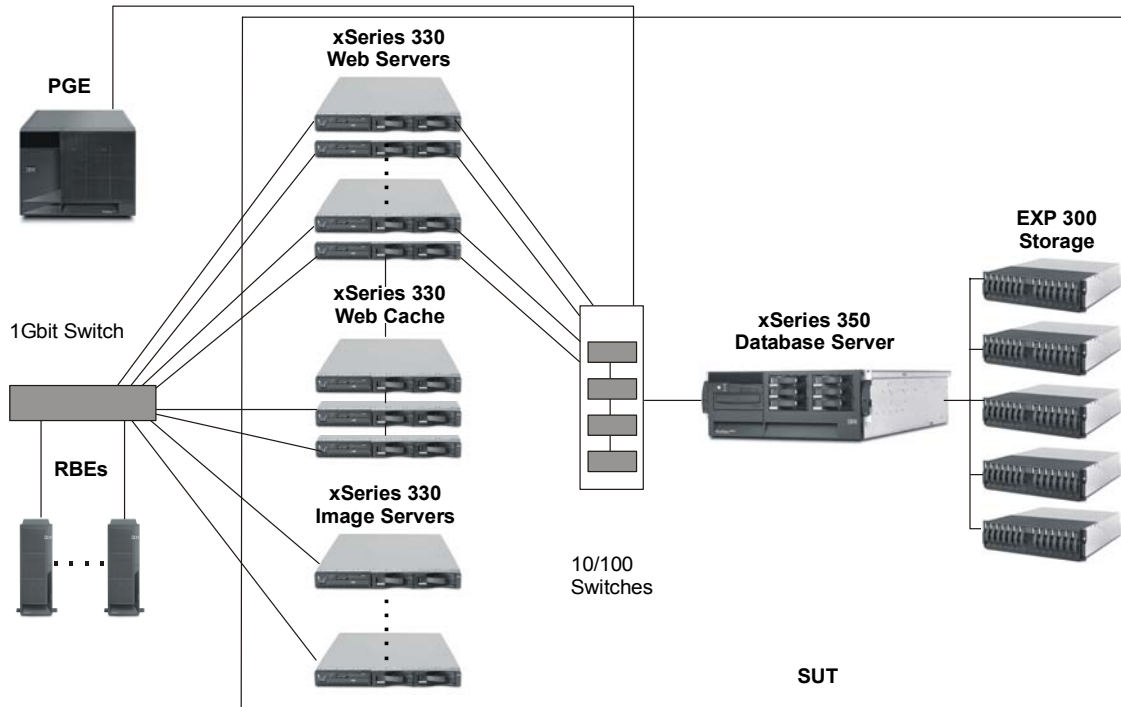


|   |   |   |
|---|---|---|
|  | <b>IBM @server xSeries 350<br/>with xSeries 330<br/>using Microsoft SQL Server 2000</b> | <b>TPC-W Version 1.7</b>  |
|   |   | <b>Report Date: 12/17/2001</b>  |
| <b>Price Performance</b><br>\$34.47 / WIPS@10,000                                 | <b>Performance</b><br>7073.7 WIPS @10,000   | <b>Available</b><br><b>December 17, 2001</b>                                    |
| <b>Total Cost</b><br>\$243,859  | <b>WIPSo@10,000</b><br>1042.2   | <b>WIPSp@10,000</b><br>7772.4   |
| <b>Scale</b><br>10,000 Items  | <b>Number of Users</b><br>54,750  | <b>Number of Systems</b><br>21  |
| <b>Web Server</b><br>Microsoft Corporation<br>Internet Information Server 5.0     | <b>Application Server</b><br>Microsoft ISAPI  | <b>Image Server</b><br>Microsoft Corporation<br>Internet Information Server 5.0 |
| <b>Database Manager</b><br>Microsoft SQL Server 2000                              | <b>Load Balancer</b><br>Microsoft DNS   | <b>Web Cache</b><br>Volera Excelerator 2.1                                      |

**Other Software:** Microsoft Windows 2000 Indexing Services



| Function                        | System      | # of Systems | Operating System                | Processors                       | Memory |
|---------------------------------|-------------|--------------|---------------------------------|----------------------------------|--------|
| Web Server                      | xSeries 330 | 11           | Windows 2000 Server             | 2 Pentium III<br>1.26GHz/512KB   | 768MB  |
| Web Server /<br>Other Software  | xSeries 330 | 1            | Windows 2000 Server             | 2 Pentium III<br>1.26GHz/512KB   | 768MB  |
| Image Server                    | xSeries 330 | 4            | Windows 2000 Server             | 2 Pentium III<br>1.26GHz/512KB   | 512MB  |
| Image Server /<br>Load Balancer | xSeries 330 | 1            | Windows 2000 Server             | 2 Pentium III<br>1.26GHz/512KB   | 512MB  |
| Database Server                 | xSeries 350 | 1            | Windows 2000 Advanced<br>Server | 4 Pentium III Xeon<br>900MHz/2MB | 4GB    |
| Web Cache                       | xSeries 330 | 3            | Volera Excelerator 2.1          | 1 Pentium III<br>1.26GHz/512KB   | 512MB  |



**@server xSeries 350 with @server xSeries 330  
using Microsoft SQL Server 2000**

TPC-W Rev. 1.7

Report Date:  
Dec. 17, 2001

**Price Performance**

**Performance**

**Availability Date**

\$34.47 per WIPS@10,000

7,073.70 WIPS@10,000

December 17, 2001

| Description  | Part No.       | Third Party |                                 | Unit Price | Qty. | Extended Price    | 3 yr.Maint. Price |
|--|----------------|-------------|---------------------------------|------------|------|-------------------|-------------------|
|  |                | Brand       | Price                           |            |      |                   |                   |
| <b>Web/Application/Image Server Hardware</b>   |                |             |                                 |            |      |                   |                   |
| xSeries 330 w/1.26GHz/512KB Pentium III  | 8674-31X       | IBM         | 1                               | \$1,845    | 20   | \$36,900          | \$9,000           |
| 1.26GHz Pentium III Processor  | 25P2836        | IBM         | 1                               | 999        | 17   | 16,983            | 0                 |
| 256MB 133MHz ECC SDRAM RDIMM   | 10K0020        | IBM         | 1                               | 245        | 32   | 7,840             | 0                 |
| 18.2GB 10K Ultra160 SCSI Drive   | 37L7205        | IBM         | 1                               | 275        | 31   | 8,525             | 0                 |
| 20/40 DDS/4 4mm SCSI Internal Tape Drive   | 00N7991        | IBM         | 1                               | 769        | 1    | 769               | 0                 |
| E54 15" (13.8" Viewable) Color Display   | 6331N2N        | IBM         | 1                               | 149        | 1    | 149               | 90                |
| Intel PRO/1000 T Adapter   | 22P6501        | Intel       | 1                               | 99         | 20   | 1,980             | 0                 |
| NetBAY42 Rack Standard Expansion Cabinet   | 9306421        | IBM         | 1                               | 1,610      | 1    | 1,610             | 300               |
| <b>Software</b>  |                |             |                                 |            |      |                   |                   |
| Microsoft Windows 2000 Server  | C11-00821      | Microsoft   | 2                               | 738        | 17   | 12,546            | incl. below       |
| Volera Excelerator 2.1 (for 512MB)   | 993-000005-001 | Volera      | 3                               | 4,995      | 3    | 13,485            |                   |
| 3-Years of Volera Technical Support (7x24)   | 051-001230-001 | Volera      | 3                               | 9,995      | 3    |                   | 29,985            |
| <b>Subtotal</b>  |                |             |                                 |            |      | <b>\$100,787</b>  | <b>\$39,375</b>   |
| <b>Database Server Hardware</b>  |                |             |                                 |            |      |                   |                   |
| xSeries 350 w/900MHz/2MB Pentium III Xeon  | 8682-6RY       | IBM         | 1                               | \$8,199    | 1    | \$8,199           | \$1,495           |
| 900MHz/2MB Pentium III Xeon Processor  | 19K4633        | IBM         | 1                               | 6,189      | 3    | 18,567            | 0                 |
| 512MB ECC SDRAM RDIMM  | 33L3117        | IBM         | 1                               | 499        | 8    | 3,992             | 0                 |
| Mylex eXtremeRAID 2000 Adapter (+2)  | E2000-4-32NB   | Mylex       | 4                               | 1,872      | 5    | 9,360             | 0                 |
| 18.2GB 15K Ultra160 SCSI Drive   | 19K0656        | IBM         | 1                               | 549        | 56   | 30,744            | 0                 |
| 36.4GB 10K Ultra160 SCSI Drive   | 37L7206        | IBM         | 1                               | 549        | 14   | 7,686             | 0                 |
| 20/40 DDS/4 4mm SCSI Internal Tape Drive   | 00N7991        | IBM         | 1                               | 769        | 1    | 769               | 0                 |
| E54 15" (13.8" Viewable) Color Display   | 6331N2N        | IBM         | 1                               | 149        | 1    | 149               | 90                |
| EXP300 Storage Expansion Enclosure   | 35311RU        | IBM         | 1                               | 3,179      | 5    | 15,895            | 1,000             |
| NetBAY42 Rack Standard Expansion Cabinet   | 9306421        | IBM         | 1                               | 1,610      | 1    | 1,610             | 300               |
| <b>Software</b>  |                |             |                                 |            |      |                   |                   |
| Microsoft SQL Server 2000 Standard Edition   | 228-00968      | Microsoft   | 2                               | 4,271      | 4    | 17,084            |                   |
| Microsoft Windows 2000 Advanced Server   | C10-00475      | Microsoft   | 2                               | 2,399      | 1    | 2,399             |                   |
| Visual C++ Professional 6.0  | 048-00317      | Microsoft   | 2                               | 549        | 1    | 549               |                   |
| 3-Year Maintenance for Microsoft Software  |                | Microsoft   | 2                               | 2,095      | 3    |                   | 6,285             |
| <b>Subtotal</b>  |                |             |                                 |            |      | <b>\$117,003</b>  | <b>\$9,170</b>    |
| <b>Connectivity</b>  |                |             |                                 |            |      |                   |                   |
| 8-Port 10/100Mbps Ethernet Switch (+10%)   | DSS-8          |             | 5                               | 51         | 5    | 255               | \$0               |
| <b>Subtotal</b>  |                |             |                                 |            |      | <b>\$255</b>      |                   |
| <b>Total</b>   |                |             |                                 |            |      | <b>\$218,045</b>  | <b>\$48,545</b>   |
| <b>Large volume discount of 14% on IBM hardware; prices will vary if purchased separately.</b> |                |             |                                 |            |      | <b>(\$22,731)</b> |                   |
| <b>3rd Party Brand:</b>  |                |             |                                 |            |      |                   |                   |
| 1: IBM, 2: Microsoft, 3: Volera, 4: Mylex, 5: Netlux   |                |             | <b>3-Year Cost of Ownership</b> |            |      | <b>\$243,859</b>  |                   |
| <b>3rd Party Pricing:</b>  |                |             | <b>WIPS@10,000</b>              |            |      | <b>7,073.70</b>   |                   |
| 1: IBM, 2: Microsoft, 3: Volera, 4: Mylex, 5: Netlux   |                |             | <b>\$ / WIPS@10,000</b>         |            |      | <b>\$34.47</b>    |                   |

**Independently Audited by: Francois Raab InfoSizing, Inc.**



@server xSeries 350 with @server xSeries 330  
using Microsoft SQL Server 2000

TPC-W Rev. 1.7

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Price Performance

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Availability Date

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7,073.7 WIPS@10,000

December 17, 2001

### Numerical Quantities Summary

#### WIPS Interaction Summary

| Interaction           | Mix   | Count     | 90% Response |
|-----------------------|-------|-----------|--------------|
| Home                  | 16.02 | 2,039,379 | 0.2          |
| Shopping Cart         | 11.61 | 1,478,579 | 0.2          |
| Customer Registration | 3.00  | 382,291   | 0.1          |
| Buy Request           | 2.60  | 331,095   | 0.3          |
| Buy Confirm           | 1.19  | 152,102   | 2.5          |
| Order Inquiry         | 0.75  | 95,472    | 0.2          |
| Order Display         | 0.66  | 83,929    | 0.3          |
| Search Request        | 19.98 | 2,544,622 | 0.2          |
| Search Results        | 16.99 | 2,163,035 | 0.2          |
| New Products          | 5.01  | 638,161   | 0.2          |
| Best Sellers          | 5.00  | 636,361   | 0.2          |
| Product Detail        | 16.99 | 2,163,862 | 0.1          |
| Admin. Request        | 0.10  | 12,532    | 0.1          |
| Admin. Confirm        | 0.09  | 11,262    | 2.6          |

#### Measurement Intervals Summary

|  | Shopping      | Browsing      | Ordering      |
|--|---------------|---------------|---------------|
| Ramp-up Time (min.)                    | 11 Minutes    | 11 Minutes    | 15 Minutes    |
| Length of Measurement Interval (min.): | 30 Minutes    | 30 Minutes    | 30 Minutes    |
| Average Think Time (sec.)              | 7.66          | 7.00          | 7.00          |
| Average User Session Duration (min.):  | 14.94 Minutes | 14.97 Minutes | 14.99 Minutes |
| Number of Users                        | 54,750        | 54,750        | 7,700         |