



Dell™ PowerVault™ MD1000  
5000 Large Mailbox Clustered Continuous  
Replication Microsoft Exchange2007  
Storage Solution



**Tested with: ESRP – Storage Version 2.2**  
**Tested Date: April 25, 2008**

## Table of Contents

Table of Contents .....	2
Overview .....	3
Disclaimer .....	3
Features .....	4
Solution Description .....	5
Targeted Customer Profile .....	8
Tested Deployment .....	8
Simulated Exchange Configuration: .....	8
Primary Storage Hardware .....	9
Primary Storage Software .....	9
Primary Storage Disk Configuration (Mailbox Store Disks) .....	10
Primary Storage Disk Configuration (Transactional Log Disks) .....	10
Replication Configuration .....	10
Replicated Storage Hardware .....	11
Replicated Storage Software .....	11
Replicated Storage Disk Configuration (Mailbox Store Disks) .....	12
Replicated Storage Disk Configuration (Transactional Log Disks) .....	12
Best Practices .....	13
Backup strategy .....	15
Contact for Additional Information .....	15
Test Result Summary .....	16
Reliability .....	16
Primary Storage Performance Results .....	17
Streaming Backup/Recovery Performance .....	17
Database Read-only Performance .....	17
Log Read-only Performance .....	18
Conclusion .....	18
Appendix A: Performance Testing .....	19
Performance Test Result Report .....	19
Database Checksum Test Result Report .....	27
Appendix B: Stress Testing .....	38
Stress Test Result Report .....	38
Appendix C: Streaming Backup Testing .....	50
Streaming backup Test Result Report .....	50
Database Checksum Test Result Report .....	52
Appendix D: Soft Recovery Testing .....	66
SoftRecovery Performance Test Result Report .....	66

## Overview

This document provides information on Dell's PowerVault MD1000 storage solution for Microsoft Exchange Server 2007, based on *Microsoft Exchange Solution Reviewed Program (ESRP) – Storage* program. The *ESRP – Storage* program was developed by Microsoft Corporation to provide a common storage testing framework for vendors to provide information on its storage solutions for Microsoft Exchange Server software. For more details on the *Microsoft ESRP – Storage* program, please click <http://www.microsoft.com/technet/prodtechnol/exchange/2007/esrp.mspx>

## Disclaimer

This document has been produced independently of Microsoft Corporation. Microsoft Corporation expressly disclaims responsibility for, and makes no warranty, express or implied, with respect to, the accuracy of the contents of this document.

THIS WHITE PAPER IS FOR INFORMATIONAL PURPOSES ONLY, AND MAY CONTAIN TYPOGRAPHICAL ERRORS AND TECHNICAL INACCURACIES. THE CONTENT IS PROVIDED AS IS, WITHOUT EXPRESS OR IMPLIED WARRANTIES OF ANY KIND.

© Dell Inc. 2007. All rights reserved. Dell, PowerEdge, PowerVault, and the Dell logo are trademarks of Dell Inc. Other trademarks and trade names are the property of their respective owners and Dell disclaims proprietary interest in the marks and names of others.

## Features

This white paper describes a tested and validated storage solution for a 5000 mailbox Exchange 2007 environment with Cluster Continuous Replication (CCR). CCR is a high availability clustering mechanism based on the MSCS majority node set (MNS) model. It requires an active and a passive set of Exchange Mailbox server nodes each of which maintain their own copy of the mailbox databases. Mail clients access the primary (active) server, and database changes to it are shipped to the secondary (passive) server in the form of log records. The shipped log records are played on the secondary server to keep the secondary database copies consistent with the primary.

Dell PowerVault MD1000 is a SAS based storage enclosure. The major features of the storage system include:

- Capacity for either 15 3.5-inch, hot-plug, 3.0-Gbps, serial-attached SCSI (SAS) hard drives or 15 3.5-inch, hot-plug, Serial ATA (SATA) hard drives
- Support for up to three daisy-chained storage enclosures in unified mode for a total of 45 hard drives
- Host-based RAID support via a PERC 6/E adapter
- In-band enclosure management provided through SCSI enclosure services (SES)
- RAID and system management using Dell OpenManage™ Server Administrator Storage Management Service

Even though each PowerVault MD1000 enclosure supports up to 15 drives, the solution presented in this paper utilizes a total of 14 disks, 12 for Exchange information stores and 2 for transaction logs. One disk may be configured as a hot-spare.

## Solution Description

The Dell™ PowerVault™ MD1000 is a modular disk storage expansion enclosure for PowerEdge™ servers capable of housing up to fifteen 3.5-inch disk drives in a single 3U rackable chassis. The direct attached storage enclosure supports both Serial Attached SCSI (SAS) and Serial ATA (SATA) disk drives.

[Dell PowerVault MD1000 Windows Server Catalog Listing](#)



Figure 1: Dell PowerVault MD1000 enclosure with 15 drives

PERC 6/E is the RAID controller used to connect the PowerVault MD1000 storage enclosure to the Exchange server. It supports 3 Gbps Serial Attached SCSI (SAS) as the storage interconnect technology and PCI Express (PCI-E) as the host-based interconnect technology.

The PERC 6/E controller offers:

- Intel IOP333 I/O processor based on Intel XScale Microarchitecture
- 256MB of customized DDR2 400MHz, Error-Correcting Code (ECC) cache memory with optional upgrade to 512MB
- 3 Gbps maximum speed for each SAS lane
- Two external x4 ("by four") SAS ports, each aggregating 4 SAS lanes for a total bandwidth per port of 12.0 Gbps

- x8 PCI E host interface for a total bandwidth of 32.0 Gbps
- Up to 72 hours of intelligent, transportable, battery-backed, cache memory

The presented solution is a CCR solution for up to 5000 mailboxes. It includes a single PowerEdge 2950 server directly attached to Dell PowerVault MD1000 storage enclosure on the primary site. The secondary site is configured to be identical to the primary. The primary and secondary storage do not share storage array controllers or disks.

The tested user profile was 0.5 IOPS per user (0.42 IOPS per user with 20% headroom) with a 1024 MB mailbox size.

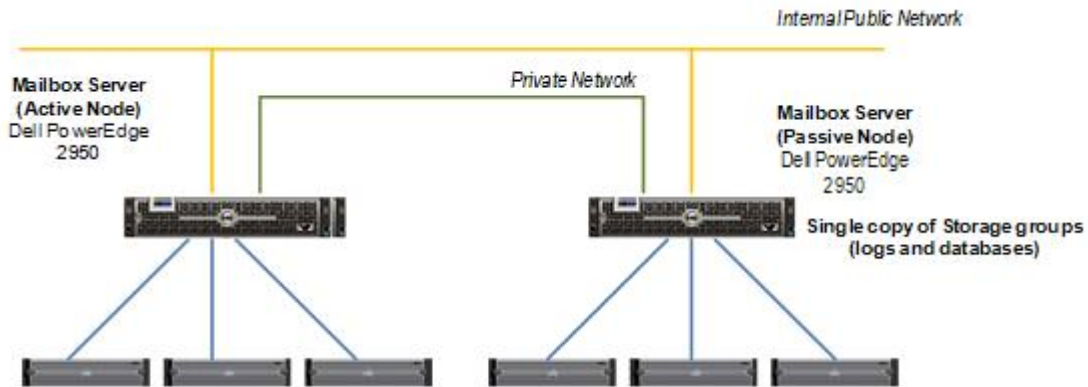


Figure 2: Test Set up Diagram

Microsoft Exchange Server System:

<b>Server</b>	Dell PowerEdge 2950
<b>CPU</b>	2 Intel® Xeon® CPU; 5160@3.00GHz
<b>Memory</b>	16 GB DDR2 ECC
<b>NIC</b>	Broadcom NeXtreme II
<b>RAID Controller</b>	PERC 5i (FW Version 1.00.01-0088)
<b>Internal Disks</b>	2 Seagate 73 GB 15K RPM SAS (ST373454SS)

Storage System:

<b>Storage System</b>	Dell PowerVault MD1000
<b>Disks</b>	15 Seagate 400GB 15K RPM SAS (ST33006555ss/Rev S512) Drives
<b>RAID Controller</b>	PERC 6/E 6.0.2-0002

## Storage Configuration:

The storage configuration was as follows:

- A RAID 1+0 volume was created from physical disks 0 through 11. This was used for Exchange Information stores.
- A RAID 1 volume was created from physical disks 12 and 13. This was used for the transaction logs.
- Disk 14 was left as a hot spare

The ESRP-Storage program focuses on storage solution testing to address performance and reliability issues with storage design. However, storage is not the only factor to take into consideration when designing a scale up Exchange solution.

Other factors which affect the server scalability are:

- Server processor utilization
- Server physical and virtual memory limitations
- Resource requirements for other applications
- Directory and network service latencies
- Network infrastructure limitations
- Replication and recovery requirements
- Client usage profiles

All these factors are beyond the scope for ESRP-Storage. Therefore, the number of mailboxes hosted per server as part of the tested configuration may not necessarily be viable for some customer deployment.

For more information on identifying and addressing performance bottlenecks in an Exchange system, please refer to Microsoft's Troubleshooting Microsoft Exchange Server Performance, available at <http://go.microsoft.com/fwlink/?LinkId=23454>.

## **Targeted Customer Profile**

This solution is intended for medium to very large organizations hosting 5000 or more Exchange 2007 mailboxes using a building block approach. The building block configuration used for testing was as follows:

- Number of mailboxes : 5000
- Number of hosts attached to the storage system: 1
- User IO profile: 0.42 I/O Operation per second with 20% headroom (Tested 0.5 IOPS)
- 1024 MB Mailbox quota per mailbox
- Backup strategy: Streaming backup to disk
- Cluster Continuous Replication for High Availability

## **Tested Deployment**

The following tables summarize the testing environment:

### **Simulated Exchange Configuration:**

<b>Number of Exchange mailboxes simulated</b>	5000
<b>Number of hosts</b>	1
<b>Number of mailboxes/host</b>	5000
<b>Number of storage groups/host</b>	36
<b>Number of mailbox stores/storage group</b>	1
<b>Number of mailboxes/mailbox store</b>	138
<b>Number of mailbox store LUNs/storage group</b>	1
<b>Simulated profile: I/O's per second per mailbox (IOPS, include 20% headroom)</b>	0.5
<b>Database LUN size</b>	1106 GB * 6 = 6636
<b>Log LUN size</b>	371 GB * 3 = 1113
<b>Backup LUN size/storage group</b>	N/A
<b>Total database size for performance testing</b>	5014 GB
<b>% storage capacity used by Exchange database**</b>	75%

\*\*Storage performance characteristics change based on the percentage utilization of the individual disks. Tests that use a small percentage of the storage (~25%) may exhibit reduced throughput if the storage capacity utilization is significantly increased beyond what is tested in this paper.

## Primary Storage Hardware

<b>Storage Connectivity (Fiber Channel, SAS, SATA, iSCSI)</b>	SAS
<b>Storage model and OS/firmware revision</b>	PowerVault MD1000+PERC 6/E Firmware 6.0.2-0002
<b>Storage cache</b>	512 MB – PERC 6/E RAID controller cache
<b>Number of storage controllers</b>	1
<b>Number of storage ports</b>	2
<b>Maximum bandwidth of storage connectivity to host</b>	3 GBit
<b>Switch type/model/firmware revision</b>	N/A
<b>HBA model and firmware</b>	PERC 6/E (RAID controller) Firmware 6.0.2-0002
<b>Number of HBA's/host</b>	1
<b>Host server type</b>	Dell PowerEdge 2950 2 Intel® Xeon® CPU; 5160@3.00GHz
<b>Total number of disks tested in solution</b>	42
<b>Maximum number of spindles can be hosted in the storage</b>	15 per cabinet –up to 45 in daisy chain configuration

## Primary Storage Software

<b>HBA driver (RAID Controller)</b>	DELL PERC 6/E
<b>HBA QueueDepth Setting</b>	16
<b>Multi-Pathing</b>	N/A
<b>Host OS</b>	Windows Server 2003 Enterprise X64 Edition SP2
<b>ESE.dll file version</b>	8.1.240.5
<b>Replication solution name/version</b>	N/A

### Primary Storage Disk Configuration (Mailbox Store Disks)

Disk type, speed and firmware revision	Seagate SAS 15K (ST33006555ss/Rev S512) 400 GB Drives
Raw capacity per disk (GB)	400 GB
Number of physical disks in test	36
Total raw storage capacity (GB)	14400 GB
Number of disks per LUN	6
Raid level	RAID 1+0
Total formatted capacity	6630 GB
Storage capacity utilization	6630 GB/ 14400 GB = 46%
Database capacity utilization	5014 GB / 14400 GB= 35%

### Primary Storage Disk Configuration (Transactional Log Disks)

Disk type, speed and firmware revision	Seagate SAS 15K (ST33006555ss/Rev S512) 400 GB Drives
Raw capacity per disk (GB)	400 GB
Number of Spindles in test	6
total raw storage capacity (GB)	2400 GB
Number of disks per LUN	2
Raid level	RAID 1
Total formatted capacity	1113 GB

### Replication Configuration

Replication mechanism	Cluster Continuous Replication
Number of links	2
Simulated link distance	LAN
Link type	IP
Link bandwidth	Gigabit Ethernet (1 Gbps)

## Replicated Storage Hardware

<b>Storage Connectivity (Fiber Channel, SAS, SATA, iSCSI)</b>	SAS
<b>Storage model and OS/firmware revision</b>	PowerVault MD1000+PERC 6/E (Identical to the Primary Storage) Firmware 6.0.2-0002 Windows Server Catalog <a href="http://www.windowsservercatalog.com/item.aspx?idItem=d127de0-3b73-71e3-95ad-4d476f8fdbb3">http://www.windowsservercatalog.com/item.aspx?idItem=d127de0-3b73-71e3-95ad-4d476f8fdbb3</a>
<b>Storage cache</b>	512 MB – PERC 6E RAID controller cache
<b>Number of storage controllers</b>	1
<b>Number of storage ports</b>	2
<b>Maximum bandwidth of storage connectivity to host</b>	3 GBit
<b>Switch type/model/firmware revision</b>	N/A
<b>HBA model and firmware</b>	PERC 6/E (RAID controller) Firmware 6.0.2-0002
<b>Number of HBA's/host</b>	1
<b>Host server type</b>	Dell PowerEdge 2950 2 Intel®Xeon®CPU;5160@3.00GHz
<b>Total number of disks tested in solution</b>	42
<b>Maximum number of spindles can be hosted in the storage</b>	15 per cabinet –up to 45 in daisy chain configuration

## Replicated Storage Software

<b>Host OS</b>	Windows Server 2003 Enterprise X64 Edition SP2
<b>ESE.dll file version</b>	8.1.240.5

### Replicated Storage Disk Configuration (Mailbox Store Disks)

<b>Disk type, speed and firmware revision</b>	Seagate SAS 15K (ST33006555ss/Rev S512) 400 GB Drives
<b>Raw capacity per disk (GB)</b>	400 GB
<b>Number of physical disks in test</b>	36
<b>total raw storage capacity (GB)</b>	14400 GB
<b>Disk slice size (GB)</b>	N/A
<b>Number of slices per LUN or number of disks per LUN</b>	N/A
<b>Raid level</b>	RAID 1+0
<b>Total formatted capacity</b>	6630 GB
<b>Storage capacity utilization</b>	6630 GB/ 14400 GB = 46%
<b>Database capacity utilization</b>	5014 GB / 14400 GB= 35%

### Replicated Storage Disk Configuration (Transactional Log Disks)

<b>Disk type, speed and firmware revision</b>	Seagate SAS 15K (ST33006555ss/Rev S512) 400 GB Drives
<b>Raw capacity per disk (GB)</b>	400 GB
<b>Number of Spindles in test</b>	6
<b>Total raw storage capacity (GB)</b>	2400 GB
<b>Disk slice size (GB)</b>	N/A
<b>Number of slices per LUN or number of disks per LUN</b>	2
<b>Raid level</b>	RAID 1
<b>Total formatted capacity</b>	1113 GB

## Best Practices

The older versions of Exchange including Exchange Server 2003 are 32-bit applications and are limited by the amount of addressable memory. Roughly 3GB of user mode virtual memory can be utilized for Exchange Server 2003 and the remaining 1GB is required for the kernel.

Exchange Server 2007 overcomes the memory limitations by providing support as a 64-bit application capable of running on supported x64 platforms. On Windows Server 2003 x64 Editions about 8TB of addressable memory is available for the kernel mode and the user mode applications. Support for up to 1TB of physical RAM is provided on Windows Server 2003 Enterprise x64 Editions. Both the application and kernel can have sufficient memory for operations, allowing the Extensible Storage Engine (ESE) in Exchange Server 2007 to utilize more memory to buffer data pages. The result is a reduction in the number of I/Os, specifically the read operations, required to the disk sub-system. The total number of database disk I/O operations for a given user load is dependent on the available system memory. For a given load, the total database disk I/O operations required per second (IOPS) decreases over a period with increase in system memory. This decrease in database IOPS is primarily caused by a decrease in database reads.

Even with the decrease in database IOPS using larger server memory, Exchange server remains a disk I/O intensive application. The disk subsystem should be capable to support both the capacity and I/O throughput demands of the application. Here are some best practices to help improve the I/O subsystem performance:

- Exchange Server can benefit from having the disk partitions track-aligned. For Windows 2003 Server SP1 or above use DiskPart to verify that your disk tracks are sector-aligned. Use a value of 64 to align the Exchange disks to a 64 KB boundary. In Exchange Server 2007, the data page size is increased from 4KB to 8KB and can provide I/O optimization in certain scenarios by containing larger messages within a page and holding internal data structures within one page due to the larger page size.
- Exchange Server 2007 also provides support for more storage groups to host mailbox database stores or databases – up to 50 storage groups per server, compared to 4 in Exchange 2003. This enables splitting user mailboxes across multiple available storage groups, providing ease of management for administrative operations such as backup/restore. Besides management ease, splitting mailboxes across multiple storage groups provides increased log checkpoint depth available for user data operations. In certain scenarios dirty data

pages can be optimized to reside in memory for a longer period of time and reduce the number of write I/O operations required to the disk sub-system. The solution described in this paper contains five storage groups with 400 users per storage group.

- Due to the high I/O demand, it is best to have dedicated disks for Exchange 2007. This will isolate the Exchange I/O's to dedicated set of disks and prevent other applications from competing for I/O throughput with Exchange disks. This will also help troubleshoot any disk latency issues as Exchange will have its own set of dedicated spindles.
- It is also recommended to place the database and transaction logs onto separate set of disks. The transaction logs generate 100% serial write I/O's to disk while the database generates 100% random read/writes. Isolating the transaction log and database I/O's onto separate disks will prevent mixing of serial and random I/O's and help improve performance.

For other detailed Exchange 2007 best practices on storage design, please visit <http://technet.microsoft.com/en-us/library/bb124518.aspx>

For other detailed PowerVault MD1000 best practices on storage optimization, please refer to [PowerVault MD1000 Reference Guide](#)

With Cluster Continuous Replication, Exchange maintains the passive database copy by creating asynchronous transaction log copies of the active database and replaying them on the passive database. Administrators can use the passive database to increase system resiliency by deploying the active and passive nodes in physically separate locations. They can also offload the backup operation to the passive node thereby eliminating the impact of backup operation on the active node.

Administrators can typically allocate resources to CCR nodes the same way they would to a stand-alone Mailbox server. Although the passive node underutilizes these resources, administrators should still configure it with the same processors and memory as the active node to allow it to easily take over should the active node fail. In addition, although the passive node incurs more database I/Os than the active node, administrators can configure it with the same amount of disk resources as the active node because of its non-production use.

## ***Backup strategy***

To protect e-mail data from potential disasters having a well designed and implemented backup solution is critical. Depending on the requirements of an environment different backup strategies may be implemented such as:

- Backup to disk
- Backup to tape
- LAN/SAN based backup etc.

In this solution, CCR is used to maintain a passive database copy on a separate storage system. This passive copy of the database may be used to perform to tape or disk.

The tests performed for backup include: backup-to-disk (read only) and log replay. The backup-to-disk test measures the read I/O performance by running a checksum on all the databases and log files. This test can help determine what kind of database read throughput can be achieved during backups. The backup speed and throughput achieved will depend upon the backup device used. The log replay test was used to measure the maximum rate at which the log files can be played against the databases. This is used to determine the restore times and also database write throughput can be achieved during a log recovery.

## **Contact for Additional Information**

For additional information please visit <http://www.dell.com/exchange2007>

## Test Result Summary

This section provides a high level summary of the test data from ESRP and the link to the detailed html reports which are generated by ESRP testing framework. Please click on the underlined headings below to view the html report for each test.

### ***Reliability***

A number of tests in the framework are to check Reliability tests runs for 24 hours. The goal is to verify the storage can handle high IO load for a long period of time. Both log and database files will be analyzed for integrity after the stress test to ensure no database/log corruption.

The following list provides an overview: (click on the underlined word will show the html report after the reliability tests run)

- Any errors reported in the saved eventlog file?  
No errors were reported in the eventlog file.
- Any errors reported in during the database and log checksum process?
  - No errors were reported in the [database](#) and [log](#) checksum process.
- If backup to disk test is done, any errors reported during the process?
  - Backup to disk was not tested

## **Primary Storage Performance Results**

The Primary Storage performance testing is designed to exercise the storage with maximum sustainable Exchange type of IO for 2 hours. The test is to show how long it takes for the storage to respond to an IO under load. The data below is the sum of all of the logical disk I/O's and average of all the logical disks I/O latency in the 2 hours test duration. Each server is listed separately and the aggregate numbers across all servers is listed as well.

### **Individual Server Metrics:**

The sum of I/O's across Storage Groups and the average latency across all Storage Groups on a per server basis.

<b>Database I/O</b>	
Average Database Disk Transfers/sec	2799
Average Database Disk Reads/sec	1736
Average Database Disk Writes/sec	1063
Average Database Disk Read Latency (ms)	14
Average Database Disk Write Latency (ms)	3
<b>Transaction Log I/O</b>	
Average Log Disk Writes/sec	384
Average Log Disk Write Latency (ms)	0

## ***Streaming Backup/Recovery Performance***

ESRP Version 2.0 release supports only streaming backup type for testing. There are three tests in this section. The first two tests measure the database and log read I/O performance metrics by running a checksum on all the databases and log files. A third test to measure the end-to-end performance when the databases are backed up to disks was not performed.

### **Database Read-only Performance**

The test is to measure the maximum rate at which databases could be streaming backed up. The following table shows the average rate for a single database file.

MB read/sec per storage group	33.3 (Average)
MB read/sec total	1199

## Log Read-only Performance

The test is to measure the maximum rate at which the log files can be played against the databases. The following table shows the average rate for 500 log files played in a single storage group. Each log file is 1 MB in size.

Average time to play one Log file (sec)	0.36 Seconds
---	--------------

## **Conclusion**

This document is developed by storage solution providers, and reviewed by Microsoft Exchange Product team. The test results/data presented in this document is based on the tests introduced in the ESRP test framework. Customer should not quote the data directly for his/her pre-deployment verification. It is still necessary to go through the exercises to validate the storage design for a specific customer environment.

ESRP program is not designed to be a benchmarking program; tests are not designed to getting the maximum throughput for a giving solution. Rather, it is focused on producing recommendations from vendors for Exchange application. So the data presented in this document should not be used for direct comparisons among the solutions.

## Appendix A: Performance Testing

### *Performance Test Result Report*

Test Summary

**Overall Test** **Pass**

**Result**

**Machine Name** SVCTAG-BZKMBD1

**Test Description** 36 Storage Groups  
1 Database per Storage Group  
6 Database LUNs and 3 Log LUNs  
3 LUNs per Enclosure  
(6 data + 6 data + 3 log) \* 3  
1 GB Mailbox  
0.5 IOPS  
5000 users

**Test Start Time** 4/21/2008 10:29:13 AM

**Test End Time** 4/21/2008 8:36:03 PM

**Jetstress Version** 08.01.0177.000

**Ese Version** 08.01.0240.005

**Operating System** Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)

**Performance Log** [C:\Program Files\Exchange\Jetstress\MLK\Performance\Tuning\\_2008\\_4\\_21\\_18\\_2\\_47.blg](C:\Program Files\Exchange\Jetstress\MLK\Performance\Tuning_2008_4_21_18_2_47.blg)  
[C:\Program Files\Exchange\Jetstress\MLK\Performance\Performance\\_2008\\_4\\_21\\_18\\_34\\_53.blg](C:\Program Files\Exchange\Jetstress\MLK\Performance\Performance_2008_4_21_18_34_53.blg)  
[C:\Program Files\Exchange\Jetstress\MLK\Performance\DBChecksum\\_2008\\_4\\_21\\_20\\_36\\_3.blg](C:\Program Files\Exchange\Jetstress\MLK\Performance\DBChecksum_2008_4_21_20_36_3.blg)

Database Sizing and Throughput

**Achieved I/O per Second** 2800.029

**Target I/O per Second** 2500

**Initial database size** 5368965562368

**Final database size** 5411246243840

**Database files (count)** 36

Jetstress System Parameters

**Thread count** 4 (per-storage group)

**Log buffers** 9000

**Minimum database cache** 1152.0 MB

**Maximum database cache** 9216.0 MB

**Insert operations** 25%

**Delete operations**            10%  
**Replace operations**        50%  
**Read operations**            15%  
**Lazy commits**                80%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (U:)	0.014	0.003	287.573	176.522	(n/a)
Database (V:)	0.014	0.003	289.565	177.912	(n/a)
Database (W:)	0.014	0.003	290.039	177.749	(n/a)
Database (X:)	0.014	0.003	290.022	177.258	(n/a)
Database (Y:)	0.015	0.003	288.276	177.244	(n/a)
Database (Z:)	0.013	0.003	291.253	176.616	(n/a)
Log (I:)	0.000	0.000	0.000	384.136	10510.781
Log (J:)	0.000	0.000	0.000	383.729	10544.373
Log (K:)	0.000	0.000	0.000	384.580	10526.484

Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	6.045	3.902	9.079
Available Mbytes	21308.518	21231.000	21313.000
Free System Page Table Entries	16756721.843	16756537.000	16756727.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	67080679.415	66723840.000	67592192.000
Pool Paged Bytes	60166751.132	58122240.000	61394944.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log4/21/2008 10:29:13 AM -- Jetstress testing begins ...  
 4/21/2008 10:29:13 AM -- Prepare testing begins ...  
 4/21/2008 10:29:13 AM -- Creating U:\Data1\Jetstress1.edb.  
 4/21/2008 10:29:13 AM -- Database cache settings: (minimum: 32.0 MB, maximum: 256.0 MB)  
 4/21/2008 10:29:13 AM -- Database flush thresholds: (start: 2.6 MB, stop: 5.1 MB)  
 4/21/2008 10:50:37 AM -- 60.0% of 138.9 GB complete (5086325 records inserted).  
 4/21/2008 11:11:09 AM -- 100.0% of 138.9 GB complete (8188019 records inserted).  
 4/21/2008 11:11:13 AM -- Duplicating 35 databases:  
 4/21/2008 5:51:48 PM -- 100.0% of 4.7 TB complete (4.7 TB duplicated).  
 4/21/2008 5:52:24 PM -- Attaching databases ...  
 4/21/2008 5:52:24 PM -- Prepare testing ends.  
 4/21/2008 5:52:24 PM -- Dispatching transactions begins ...  
 4/21/2008 5:52:24 PM -- Database cache settings: (minimum: 1.1 GB, maximum: 9.0 GB)

4/21/2008 5:52:24 PM -- Database flush thresholds: (start: 92.2 MB, stop: 184.3 MB)  
4/21/2008 5:53:01 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).  
4/21/2008 5:53:01 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).  
4/21/2008 5:53:01 PM -- Attaining prerequisites:  
4/21/2008 6:02:47 PM -- \MSEExchange Database(JetstressWin)\Database Cache Size, Last: 8700559000.0 (lower bound: 8697308000.0, upper bound: none)  
4/21/2008 6:02:49 PM -- Performance logging begins (interval: 5000 ms).  
4/21/2008 6:02:49 PM -- Automatic tuning begins ...  
4/21/2008 6:03:20 PM -- Volume U: has 0.00002 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume V: has 0.00009 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume X: has 0.00024 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume Y: has 0.00013 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume Z: has 0.00013 for read latency slope.  
4/21/2008 6:05:20 PM -- 2595 batch transactions/sec and 8 sessions have 3700 IOPS.  
4/21/2008 6:05:20 PM -- 8 sessions have actual 3700 IOPS (target IOPS: 2500)  
4/21/2008 6:05:20 PM -- Volume U: has 0.0211 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume V: has 0.0210 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume W: has 0.0334 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume X: has 0.0283 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume Y: has 0.0322 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume Z: has 0.0265 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:05:20 PM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/21/2008 6:05:20 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume J: has 0.0037 for Avg. Disk sec/Write.  
4/21/2008 6:05:20 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume K: has 0.0026 for Avg. Disk sec/Write.  
4/21/2008 6:05:20 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:05:50 PM -- Volume U: has 0.00491 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume V: has 0.00396 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume W: has 0.00020 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume X: has 0.00016 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume Y: has 0.00611 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume Z: has 0.00210 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume U: has 0.00490 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume V: has 0.00111 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume W: has 0.00680 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume X: has 0.00464 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume Y: has 0.01088 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume Z: has 0.00046 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume U: has 0.00101 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume V: has 0.00241 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume W: has 0.00228 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume X: has 0.00145 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume Y: has 0.00201 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume Z: has 0.00053 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume U: has 0.00047 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume V: has 0.00013 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume W: has 0.00027 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume X: has 0.00006 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume Y: has 0.00015 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume Z: has 0.00004 for read latency slope.  
4/21/2008 6:09:21 PM -- 1406 batch transactions/sec and 4 sessions have 2970 IOPS.  
4/21/2008 6:09:21 PM -- 4 sessions have actual 2970 IOPS (target IOPS: 2500)

4/21/2008 6:09:21 PM -- Volume U: has 0.0269 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume V: has 0.0358 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume W: has 0.0355 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume X: has 0.0338 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume Y: has 0.0477 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume Z: has 0.0249 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:09:21 PM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:09:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:09:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:09:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:09:51 PM -- Volume U: has 0.00087 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume V: has 0.00155 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume W: has 0.00160 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume X: has 0.00077 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume Y: has 0.00084 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume Z: has 0.00100 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume U: has 0.00051 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume V: has 0.00212 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume W: has 0.00018 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume X: has 0.00153 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume Y: has 0.00783 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume Z: has 0.00107 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume U: has 0.00657 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume V: has 0.00569 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume W: has 0.01004 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume X: has 0.00305 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume Y: has 0.00497 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume Z: has 0.00088 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume U: has 0.00025 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume V: has 0.00001 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume W: has 0.00004 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume X: has 0.00061 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume Y: has 0.00001 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume Z: has 0.00005 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume U: has 0.00006 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume V: has 0.00095 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume X: has 0.00009 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume Y: has 0.00019 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume Z: has 0.00019 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume U: has 0.00005 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume V: has 0.00002 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume W: has 0.00000 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume X: has 0.00003 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume Y: has 0.00008 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume Z: has 0.00008 for read latency slope.  
4/21/2008 6:14:21 PM -- 949 batch transactions/sec and 2 sessions have 1521 IOPS.  
4/21/2008 6:14:21 PM -- 2 sessions have actual 1521 IOPS (target IOPS: 2500)  
4/21/2008 6:14:21 PM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume V: has 0.0104 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume W: has 0.0097 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume X: has 0.0104 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume Y: has 0.0106 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume Z: has 0.0091 for Avg. Disk sec/Read.

4/21/2008 6:14:21 PM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:14:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:14:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:14:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:14:51 PM -- Volume U: has 0.00052 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume V: has 0.00048 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume W: has 0.00012 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume X: has 0.00063 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume Y: has 0.00075 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume Z: has 0.00052 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume U: has 0.00004 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume V: has 0.00005 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume W: has 0.00001 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume X: has 0.00022 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume Y: has 0.00024 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume Z: has 0.00000 for read latency slope.  
4/21/2008 6:17:21 PM -- 1726 batch transactions/sec and 4 sessions have 2873 IOPS.  
4/21/2008 6:17:21 PM -- 4 sessions have actual 2873 IOPS (target IOPS: 2500)  
4/21/2008 6:17:21 PM -- Volume U: has 0.0208 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume V: has 0.0251 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume W: has 0.0178 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume X: has 0.0152 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume Y: has 0.0342 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume Z: has 0.0190 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:17:21 PM -- Volume I: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:17:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:17:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:17:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Operation mix: Sessions 3, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:17:51 PM -- Volume U: has 0.00001 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume V: has 0.00079 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume X: has 0.00018 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume Y: has 0.00123 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume Z: has 0.00014 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume U: has 0.00003 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume V: has 0.00018 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume W: has 0.00020 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume X: has 0.00002 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume Y: has 0.00026 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume Z: has 0.00015 for read latency slope.  
4/21/2008 6:20:21 PM -- 1375 batch transactions/sec and 3 sessions have 2233 IOPS.  
4/21/2008 6:20:21 PM -- 3 sessions have actual 2233 IOPS (target IOPS: 2500)  
4/21/2008 6:20:21 PM -- Volume U: has 0.0120 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume V: has 0.0132 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume W: has 0.0115 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume X: has 0.0129 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume Y: has 0.0139 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume Z: has 0.0122 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:20:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.

4/21/2008 6:20:21 PM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:20:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:20:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:20:51 PM -- Volume U: has 0.00066 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume V: has 0.00037 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume W: has 0.00043 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume X: has 0.00005 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume Y: has 0.00029 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume Z: has 0.00060 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume U: has 0.00016 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume V: has 0.00049 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume W: has 0.00010 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume X: has 0.00018 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume Y: has 0.00011 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume Z: has 0.00067 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume U: has 0.00045 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume V: has 0.00029 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume W: has 0.00052 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume X: has 0.00015 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume Y: has 0.00055 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume Z: has 0.00063 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume U: has 0.00156 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume V: has 0.00017 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume W: has 0.00012 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume X: has 0.00020 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume Y: has 0.00029 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume Z: has 0.00021 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume U: has 0.00073 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume V: has 0.00038 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume W: has 0.00112 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume X: has 0.00111 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume Y: has 0.00355 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume Z: has 0.00127 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume U: has 0.00008 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume V: has 0.00002 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume W: has 0.00009 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume X: has 0.00041 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume Y: has 0.00040 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume Z: has 0.00007 for read latency slope.  
4/21/2008 6:25:21 PM -- 1704 batch transactions/sec and 4 sessions have 2799 IOPS.  
4/21/2008 6:25:21 PM -- 4 sessions have actual 2799 IOPS (target IOPS: 2500)  
4/21/2008 6:25:21 PM -- Volume U: has 0.0217 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume V: has 0.0207 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume W: has 0.0171 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume X: has 0.0193 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume Y: has 0.0238 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume Z: has 0.0173 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:25:21 PM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/21/2008 6:25:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:25:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:25:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.

4/21/2008 6:25:51 PM -- Volume U: has 0.00042 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume V: has 0.00092 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume W: has 0.00017 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume X: has 0.00161 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume Y: has 0.00401 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume Z: has 0.00079 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume U: has 0.00000 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume V: has 0.00018 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume W: has 0.00001 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume X: has 0.00001 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume Y: has 0.00020 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume Z: has 0.00027 for read latency slope.  
4/21/2008 6:28:21 PM -- 939 batch transactions/sec and 2 sessions have 1486 IOPS.  
4/21/2008 6:28:21 PM -- 2 sessions have actual 1486 IOPS (target IOPS: 2500)  
4/21/2008 6:28:21 PM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume V: has 0.0117 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume W: has 0.0098 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume X: has 0.0110 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume Y: has 0.0104 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume Z: has 0.0091 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:28:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:28:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:28:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:28:51 PM -- Volume U: has 0.00027 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume V: has 0.00030 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume W: has 0.00070 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume X: has 0.00027 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume Y: has 0.00120 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume Z: has 0.00015 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume U: has 0.00002 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume V: has 0.00013 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume X: has 0.00016 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume Y: has 0.00287 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume Z: has 0.00058 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume U: has 0.00001 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume V: has 0.00017 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume W: has 0.00019 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume X: has 0.00026 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume Y: has 0.00069 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume Z: has 0.00082 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume U: has 0.00036 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume V: has 0.00020 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume W: has 0.00005 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume X: has 0.00025 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume Y: has 0.00063 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume Z: has 0.00033 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume U: has 0.00098 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume V: has 0.00251 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume W: has 0.00143 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume X: has 0.00136 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume Y: has 0.00273 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume Z: has 0.00119 for read latency slope.  
4/21/2008 6:31:21 PM -- Volume U: has 0.00108 for read latency slope.

4/21/2008 6:31:21 PM -- Volume V: has 0.00209 for read latency slope.  
 4/21/2008 6:31:21 PM -- Volume W: has 0.00035 for read latency slope.  
 4/21/2008 6:31:21 PM -- Volume X: has 0.00051 for read latency slope.  
 4/21/2008 6:31:21 PM -- Volume Y: has 0.00080 for read latency slope.  
 4/21/2008 6:31:21 PM -- Volume Z: has 0.00048 for read latency slope.  
 4/21/2008 6:31:51 PM -- Volume U: has 0.00066 for read latency slope.  
 4/21/2008 6:31:51 PM -- Volume V: has 0.00014 for read latency slope.  
 4/21/2008 6:31:51 PM -- Volume W: has 0.00005 for read latency slope.  
 4/21/2008 6:31:51 PM -- Volume X: has 0.00073 for read latency slope.  
 4/21/2008 6:31:51 PM -- Volume Y: has 0.00188 for read latency slope.  
 4/21/2008 6:31:51 PM -- Volume Z: has 0.00025 for read latency slope.  
 4/21/2008 6:32:21 PM -- Volume U: has 0.00013 for read latency slope.  
 4/21/2008 6:32:21 PM -- Volume V: has 0.00069 for read latency slope.  
 4/21/2008 6:32:21 PM -- Volume W: has 0.00018 for read latency slope.  
 4/21/2008 6:32:21 PM -- Volume X: has 0.00019 for read latency slope.  
 4/21/2008 6:32:21 PM -- Volume Y: has 0.00005 for read latency slope.  
 4/21/2008 6:32:21 PM -- Volume Z: has 0.00023 for read latency slope.  
 4/21/2008 6:32:51 PM -- Volume U: has 0.00008 for read latency slope.  
 4/21/2008 6:32:51 PM -- Volume V: has 0.00029 for read latency slope.  
 4/21/2008 6:32:51 PM -- Volume W: has 0.00013 for read latency slope.  
 4/21/2008 6:32:51 PM -- Volume X: has 0.00022 for read latency slope.  
 4/21/2008 6:32:51 PM -- Volume Y: has 0.00015 for read latency slope.  
 4/21/2008 6:32:51 PM -- Volume Z: has 0.00003 for read latency slope.  
 4/21/2008 6:34:52 PM -- 1705 batch transactions/sec and 4 sessions have 2835 IOPS.  
 4/21/2008 6:34:52 PM -- 4 sessions have actual 2835 IOPS (target IOPS: 2500)  
 4/21/2008 6:34:52 PM -- Volume U: has 0.0179 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume V: has 0.0172 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume W: has 0.0171 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume X: has 0.0162 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume Y: has 0.0194 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume Z: has 0.0137 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
 4/21/2008 6:34:52 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
 4/21/2008 6:34:52 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
 4/21/2008 6:34:52 PM -- Volume K: has 0.0005 for Avg. Disk sec/Write.  
 4/21/2008 6:34:52 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
 4/21/2008 6:34:53 PM -- Performance logging ends.  
 4/21/2008 6:34:53 PM -- Automatic tuning succeeded.  
 4/21/2008 6:34:54 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
 4/21/2008 6:34:54 PM -- Performance logging begins (interval: 15000 ms).  
 4/21/2008 6:34:54 PM -- Attaining prerequisites:  
 4/21/2008 6:34:54 PM -- \MSExchange Database(JetstressWin)\Database Cache Size, Last: 9663676000.0 (lower bound: 8697308000.0, upper bound: none)  
 4/21/2008 8:34:56 PM -- Performance logging ends.  
 4/21/2008 8:34:56 PM -- JetInterop batch transaction stats: 27913, 28365, 28059, 27973, 28022, 28064, 27951, 28110, 28027, 28030, 28009, 27956, 27877, 28098, 28045, 28016, 28332, 28560, 28051, 28082, 28203, 28003, 28003, 28053, 28545, 27930, 28015, 28185, 28170, 27909, 28105, 28078, 28024, 28258, 27991, and 27913.  
 4/21/2008 8:34:56 PM -- Dispatching transactions ends.  
 4/21/2008 8:34:56 PM -- Shutting down databases ...  
 4/21/2008 8:36:03 PM -- Instance2092.1 (complete), Instance2092.2 (complete), Instance2092.3 (complete), Instance2092.4 (complete), Instance2092.5 (complete), Instance2092.6 (complete), Instance2092.7 (complete), Instance2092.8 (complete), Instance2092.9 (complete), Instance2092.10 (complete), Instance2092.11 (complete), Instance2092.12 (complete), Instance2092.13 (complete), Instance2092.14 (complete), Instance2092.15 (complete), Instance2092.16 (complete), Instance2092.17 (complete), Instance2092.18 (complete), Instance2092.19 (complete), Instance2092.20 (complete),

Instance2092.21 (complete), Instance2092.22 (complete), Instance2092.23 (complete), Instance2092.24 (complete), Instance2092.25 (complete), Instance2092.26 (complete), Instance2092.27 (complete), Instance2092.28 (complete), Instance2092.29 (complete), Instance2092.30 (complete), Instance2092.31 (complete), Instance2092.32 (complete), Instance2092.33 (complete), Instance2092.34 (complete), Instance2092.35 (complete), and Instance2092.36 (complete)

4/21/2008 8:36:04 PM -- Performance logging begins (interval: 30000 ms).

4/21/2008 8:36:04 PM -- Verifying database checksums ...

4/21/2008 9:44:21 PM -- U: (100% processed), V: (100% processed), W: (100% processed), X: (100% processed), Y: (100% processed), and Z: (100% processed)

4/21/2008 9:44:22 PM -- Performance logging ends.

4/21/2008 9:44:22 PM -- [C:\Program Files\Exchange Jetstress\MLK\Performance\DBChecksum\\_2008\\_4\\_21\\_20\\_36\\_3.blg](C:\Program Files\Exchange Jetstress\MLK\Performance\DBChecksum_2008_4_21_20_36_3.blg) has 136 samples.

4/21/2008 9:44:25 PM -- [C:\Program Files\Exchange Jetstress\MLK\Performance\DBChecksum\\_2008\\_4\\_21\\_20\\_36\\_3.html](C:\Program Files\Exchange Jetstress\MLK\Performance\DBChecksum_2008_4_21_20_36_3.html) is saved.

4/21/2008 9:44:25 PM -- Verifying log checksums ...

4/21/2008 9:46:27 PM -- I:\Log1 (23 logs passed), I:\Log2 (22 logs passed), I:\Log3 (22 logs passed), I:\Log4 (22 logs passed), I:\Log5 (22 logs passed), I:\Log6 (22 logs passed), I:\Log7 (22 logs passed), I:\Log8 (22 logs passed), I:\Log9 (22 logs passed), I:\Log10 (23 logs passed), I:\Log11 (22 logs passed), I:\Log12 (22 logs passed), J:\Log1 (21 logs passed), J:\Log2 (22 logs passed), J:\Log3 (22 logs passed), J:\Log4 (22 logs passed), J:\Log5 (22 logs passed), J:\Log6 (22 logs passed), J:\Log7 (22 logs passed), J:\Log8 (21 logs passed), J:\Log9 (22 logs passed), J:\Log10 (22 logs passed), J:\Log11 (21 logs passed), J:\Log12 (22 logs passed), K:\Log1 (22 logs passed), K:\Log2 (22 logs passed), K:\Log3 (22 logs passed), K:\Log4 (22 logs passed), K:\Log5 (22 logs passed), K:\Log6 (22 logs passed), K:\Log7 (22 logs passed), K:\Log8 (22 logs passed), K:\Log9 (21 logs passed), K:\Log10 (22 logs passed), K:\Log11 (22 logs passed), and K:\Log12 (22 logs passed)

4/21/2008 9:46:27 PM -- [C:\Program Files\Exchange Jetstress\MLK\Performance\Performance\\_2008\\_4\\_21\\_18\\_34\\_53.blg](C:\Program Files\Exchange Jetstress\MLK\Performance\Performance_2008_4_21_18_34_53.blg) has 479 samples.

4/21/2008 9:46:27 PM -- Creating test report ...

4/21/2008 9:46:34 PM -- Volume U: has 0.0138 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume V: has 0.0143 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume W: has 0.0137 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume X: has 0.0136 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume Y: has 0.0154 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume Z: has 0.0129 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume I: has 0.0001 for Avg. Disk sec/Write.

4/21/2008 9:46:34 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume J: has 0.0002 for Avg. Disk sec/Write.

4/21/2008 9:46:34 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Volume K: has 0.0002 for Avg. Disk sec/Write.

4/21/2008 9:46:34 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.

4/21/2008 9:46:34 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.

4/21/2008 9:46:34 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.

4/21/2008 9:46:34 PM -- [C:\Program Files\Exchange Jetstress\MLK\Performance\Performance\\_2008\\_4\\_21\\_18\\_34\\_53.xml](C:\Program Files\Exchange Jetstress\MLK\Performance\Performance_2008_4_21_18_34_53.xml) has 478 samples queried.

## Database Checksum Test Result Report

### Checksum Statistics - All

Database	Seen pages	Bad pages	Correctable pages	Wrong page no pages	File length / seconds taken
U:\Data1\Jetstress1.edb	18348418	0	0	0	143347 MBytes /

					679 seconds
U:\Data2\Jetstress1.edb	18353026	0	0	0	143383 MBytes / 576 seconds
U:\Data3\Jetstress1.edb	18346626	0	0	0	143333 MBytes / 679 seconds
U:\Data4\Jetstress1.edb	18346370	0	0	0	143331 MBytes / 498 seconds
U:\Data5\Jetstress1.edb	18351234	0	0	0	143369 MBytes / 719 seconds
U:\Data6\Jetstress1.edb	18347650	0	0	0	143341 MBytes / 521 seconds
V:\Data7\Jetstress1.edb	18347138	0	0	0	143337 MBytes / 594 seconds
V:\Data8\Jetstress1.edb	18352770	0	0	0	143381 MBytes / 631 seconds
V:\Data9\Jetstress1.edb	18348418	0	0	0	143347 MBytes / 495 seconds
V:\Data10\Jetstress1.edb	18351490	0	0	0	143371 MBytes / 714 seconds
V:\Data11\Jetstress1.edb	18348162	0	0	0	143345 MBytes / 619 seconds
V:\Data12\Jetstress1.edb	18346626	0	0	0	143333 MBytes / 517 seconds
W:\Data1\Jetstress1.edb	18347394	0	0	0	143339 MBytes / 562 seconds
W:\Data2\Jetstress1.edb	18347650	0	0	0	143341 MBytes / 702 seconds
W:\Data3\Jetstress1.edb	18352002	0	0	0	143375 MBytes / 694 seconds
W:\Data4\Jetstress1.edb	18347906	0	0	0	143343 MBytes / 495 seconds
W:\Data5\Jetstress1.edb	18351746	0	0	0	143373 MBytes / 550 seconds

W:\Data6\Jetstress1.edb	18348930	0	0	0	143351 MBytes / 624 seconds
X:\Data7\Jetstress1.edb	18353282	0	0	0	143385 MBytes / 510 seconds
X:\Data8\Jetstress1.edb	18348930	0	0	0	143351 MBytes / 657 seconds
X:\Data9\Jetstress1.edb	18344066	0	0	0	143313 MBytes / 644 seconds
X:\Data10\Jetstress1.edb	18347394	0	0	0	143339 MBytes / 573 seconds
X:\Data11\Jetstress1.edb	18348674	0	0	0	143349 MBytes / 534 seconds
X:\Data12\Jetstress1.edb	18344834	0	0	0	143319 MBytes / 712 seconds
Y:\Data1\Jetstress1.edb	18348674	0	0	0	143349 MBytes / 681 seconds
Y:\Data2\Jetstress1.edb	18350466	0	0	0	143363 MBytes / 762 seconds
Y:\Data3\Jetstress1.edb	18353538	0	0	0	143387 MBytes / 641 seconds
Y:\Data4\Jetstress1.edb	18351234	0	0	0	143369 MBytes / 720 seconds
Y:\Data5\Jetstress1.edb	18350978	0	0	0	143367 MBytes / 638 seconds
Y:\Data6\Jetstress1.edb	18347650	0	0	0	143341 MBytes / 650 seconds
Z:\Data7\Jetstress1.edb	18347650	0	0	0	143341 MBytes / 627 seconds
Z:\Data8\Jetstress1.edb	18345858	0	0	0	143327 MBytes / 658 seconds
Z:\Data9\Jetstress1.edb	18345090	0	0	0	143321 MBytes / 726 seconds
Z:\Data10\Jetstress1.edb	18345602	0	0	0	143325

				MBytes / 606 seconds	
Z:\Data11\Jetstress1.edb	18344834	0	0	0	143319 MBytes / 636 seconds
Z:\Data12\Jetstress1.edb	18350210	0	0	0	143361 MBytes / 587 seconds
(Sum)	660552520	0	0	0	5160566 MBytes / 4097 seconds

#### Disk Subsystem Performance (of checksum)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec
U:	0.230	0.000	3755.375	0.000
V:	0.237	0.000	3851.839	0.000
W:	0.244	0.000	3793.999	0.000
X:	0.250	0.000	3787.899	0.000
Y:	0.264	0.000	3362.837	0.000
Z:	0.252	0.000	3580.672	0.000

#### Memory System Performance (of checksum)

Counter	Average	Minimum	Maximum
% Processor Time	42.174	4.570	52.617
Available MBytes	30631.574	30594.000	30919.000
Free System Page Table Entries	16756537.000	16756537.000	16756537.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	77960463.059	77692928.000	78475264.000
Pool Paged Bytes	58826119.529	58765312.000	59297792.000

Test Log4/21/2008 10:29:13 AM -- Jetstress testing begins ...

4/21/2008 10:29:13 AM -- Prepare testing begins ...

4/21/2008 10:29:13 AM -- Creating U:\Data1\Jetstress1.edb.

4/21/2008 10:29:13 AM -- Database cache settings: (minimum: 32.0 MB, maximum: 256.0 MB)

4/21/2008 10:29:13 AM -- Database flush thresholds: (start: 2.6 MB, stop: 5.1 MB)

4/21/2008 10:50:37 AM -- 60.0% of 138.9 GB complete (5086325 records inserted).

4/21/2008 11:11:09 AM -- 100.0% of 138.9 GB complete (8188019 records inserted).

4/21/2008 11:11:13 AM -- Duplicating 35 databases:

4/21/2008 5:51:48 PM -- 100.0% of 4.7 TB complete (4.7 TB duplicated).

4/21/2008 5:52:24 PM -- Attaching databases ...

4/21/2008 5:52:24 PM -- Prepare testing ends.

4/21/2008 5:52:24 PM -- Dispatching transactions begins ...

4/21/2008 5:52:24 PM -- Database cache settings: (minimum: 1.1 GB, maximum: 9.0 GB)

4/21/2008 5:52:24 PM -- Database flush thresholds: (start: 92.2 MB, stop: 184.3 MB)

4/21/2008 5:53:01 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

4/21/2008 5:53:01 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

4/21/2008 5:53:01 PM -- Attaining prerequisites:  
4/21/2008 6:02:47 PM -- \MSExchange Database(JetstressWin)\Database Cache Size, Last:  
8700559000.0 (lower bound: 8697308000.0, upper bound: none)  
4/21/2008 6:02:49 PM -- Performance logging begins (interval: 5000 ms).  
4/21/2008 6:02:49 PM -- Automatic tuning begins ...  
4/21/2008 6:03:20 PM -- Volume U: has 0.00002 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume V: has 0.00009 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume X: has 0.00024 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume Y: has 0.00013 for read latency slope.  
4/21/2008 6:03:20 PM -- Volume Z: has 0.00013 for read latency slope.  
4/21/2008 6:05:20 PM -- 2595 batch transactions/sec and 8 sessions have 3700 IOPS.  
4/21/2008 6:05:20 PM -- 8 sessions have actual 3700 IOPS (target IOPS: 2500)  
4/21/2008 6:05:20 PM -- Volume U: has 0.0211 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume V: has 0.0210 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume W: has 0.0334 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume X: has 0.0283 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume Y: has 0.0322 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume Z: has 0.0265 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:05:20 PM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/21/2008 6:05:20 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume J: has 0.0037 for Avg. Disk sec/Write.  
4/21/2008 6:05:20 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Volume K: has 0.0026 for Avg. Disk sec/Write.  
4/21/2008 6:05:20 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:05:20 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces  
50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:05:50 PM -- Volume U: has 0.00491 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume V: has 0.00396 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume W: has 0.00020 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume X: has 0.00016 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume Y: has 0.00611 for read latency slope.  
4/21/2008 6:05:50 PM -- Volume Z: has 0.00210 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume U: has 0.00490 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume V: has 0.00111 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume W: has 0.00680 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume X: has 0.00464 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume Y: has 0.01088 for read latency slope.  
4/21/2008 6:06:20 PM -- Volume Z: has 0.00046 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume U: has 0.00101 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume V: has 0.00241 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume W: has 0.00228 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume X: has 0.00145 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume Y: has 0.00201 for read latency slope.  
4/21/2008 6:06:50 PM -- Volume Z: has 0.00053 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume U: has 0.00047 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume V: has 0.00013 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume W: has 0.00027 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume X: has 0.00006 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume Y: has 0.00015 for read latency slope.  
4/21/2008 6:07:20 PM -- Volume Z: has 0.00004 for read latency slope.  
4/21/2008 6:09:21 PM -- 1406 batch transactions/sec and 4 sessions have 2970 IOPS.  
4/21/2008 6:09:21 PM -- 4 sessions have actual 2970 IOPS (target IOPS: 2500)  
4/21/2008 6:09:21 PM -- Volume U: has 0.0269 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume V: has 0.0358 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume W: has 0.0355 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume X: has 0.0338 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume Y: has 0.0477 for Avg. Disk sec/Read.

4/21/2008 6:09:21 PM -- Volume Z: has 0.0249 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:09:21 PM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:09:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:09:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:09:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:09:21 PM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:09:51 PM -- Volume U: has 0.00087 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume V: has 0.00155 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume W: has 0.00160 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume X: has 0.00077 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume Y: has 0.00084 for read latency slope.  
4/21/2008 6:09:51 PM -- Volume Z: has 0.00100 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume U: has 0.00051 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume V: has 0.00212 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume W: has 0.00018 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume X: has 0.00153 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume Y: has 0.00783 for read latency slope.  
4/21/2008 6:10:21 PM -- Volume Z: has 0.00107 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume U: has 0.00657 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume V: has 0.00569 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume W: has 0.01004 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume X: has 0.00305 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume Y: has 0.00497 for read latency slope.  
4/21/2008 6:10:51 PM -- Volume Z: has 0.00088 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume U: has 0.00025 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume V: has 0.00001 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume W: has 0.00004 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume X: has 0.00061 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume Y: has 0.00001 for read latency slope.  
4/21/2008 6:11:21 PM -- Volume Z: has 0.00005 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume U: has 0.00006 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume V: has 0.00095 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume X: has 0.00009 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume Y: has 0.00019 for read latency slope.  
4/21/2008 6:11:51 PM -- Volume Z: has 0.00019 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume U: has 0.00005 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume V: has 0.00002 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume W: has 0.00000 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume X: has 0.00003 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume Y: has 0.00008 for read latency slope.  
4/21/2008 6:12:21 PM -- Volume Z: has 0.00008 for read latency slope.  
4/21/2008 6:14:21 PM -- 949 batch transactions/sec and 2 sessions have 1521 IOPS.  
4/21/2008 6:14:21 PM -- 2 sessions have actual 1521 IOPS (target IOPS: 2500)  
4/21/2008 6:14:21 PM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume V: has 0.0104 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume W: has 0.0097 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume X: has 0.0104 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume Y: has 0.0106 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume Z: has 0.0091 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:14:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:14:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Volume K: has 0.0001 for Avg. Disk sec/Write.

4/21/2008 6:14:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:14:21 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:14:51 PM -- Volume U: has 0.00052 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume V: has 0.00048 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume W: has 0.00012 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume X: has 0.00063 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume Y: has 0.00075 for read latency slope.  
4/21/2008 6:14:51 PM -- Volume Z: has 0.00052 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume U: has 0.00004 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume V: has 0.00005 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume W: has 0.00001 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume X: has 0.00022 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume Y: has 0.00024 for read latency slope.  
4/21/2008 6:15:21 PM -- Volume Z: has 0.00000 for read latency slope.  
4/21/2008 6:17:21 PM -- 1726 batch transactions/sec and 4 sessions have 2873 IOPS.  
4/21/2008 6:17:21 PM -- 4 sessions have actual 2873 IOPS (target IOPS: 2500)  
4/21/2008 6:17:21 PM -- Volume U: has 0.0208 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume V: has 0.0251 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume W: has 0.0178 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume X: has 0.0152 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume Y: has 0.0342 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume Z: has 0.0190 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:17:21 PM -- Volume I: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:17:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:17:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:17:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:17:21 PM -- Operation mix: Sessions 3, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:17:51 PM -- Volume U: has 0.00001 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume V: has 0.00079 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume X: has 0.00018 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume Y: has 0.00123 for read latency slope.  
4/21/2008 6:17:51 PM -- Volume Z: has 0.00014 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume U: has 0.00003 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume V: has 0.00018 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume W: has 0.00020 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume X: has 0.00002 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume Y: has 0.00026 for read latency slope.  
4/21/2008 6:18:21 PM -- Volume Z: has 0.00015 for read latency slope.  
4/21/2008 6:20:21 PM -- 1375 batch transactions/sec and 3 sessions have 2233 IOPS.  
4/21/2008 6:20:21 PM -- 3 sessions have actual 2233 IOPS (target IOPS: 2500)  
4/21/2008 6:20:21 PM -- Volume U: has 0.0120 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume V: has 0.0132 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume W: has 0.0115 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume X: has 0.0129 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume Y: has 0.0139 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume Z: has 0.0122 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:20:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:20:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:20:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:20:21 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces

50%, Reads 15%, Lazy Commits 80%.

4/21/2008 6:20:51 PM -- Volume U: has 0.00066 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume V: has 0.00037 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume W: has 0.00043 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume X: has 0.00005 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume Y: has 0.00029 for read latency slope.  
4/21/2008 6:20:51 PM -- Volume Z: has 0.00060 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume U: has 0.00016 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume V: has 0.00049 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume W: has 0.00010 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume X: has 0.00018 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume Y: has 0.00011 for read latency slope.  
4/21/2008 6:21:21 PM -- Volume Z: has 0.00067 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume U: has 0.00045 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume V: has 0.00029 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume W: has 0.00052 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume X: has 0.00015 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume Y: has 0.00055 for read latency slope.  
4/21/2008 6:21:51 PM -- Volume Z: has 0.00063 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume U: has 0.00156 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume V: has 0.00017 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume W: has 0.00012 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume X: has 0.00020 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume Y: has 0.00029 for read latency slope.  
4/21/2008 6:22:21 PM -- Volume Z: has 0.00021 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume U: has 0.00073 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume V: has 0.00038 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume W: has 0.00112 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume X: has 0.00111 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume Y: has 0.00355 for read latency slope.  
4/21/2008 6:22:51 PM -- Volume Z: has 0.00127 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume U: has 0.00008 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume V: has 0.00002 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume W: has 0.00009 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume X: has 0.00041 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume Y: has 0.00040 for read latency slope.  
4/21/2008 6:23:21 PM -- Volume Z: has 0.00007 for read latency slope.  
4/21/2008 6:25:21 PM -- 1704 batch transactions/sec and 4 sessions have 2799 IOPS.  
4/21/2008 6:25:21 PM -- 4 sessions have actual 2799 IOPS (target IOPS: 2500)  
4/21/2008 6:25:21 PM -- Volume U: has 0.0217 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume V: has 0.0207 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume W: has 0.0171 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume X: has 0.0193 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume Y: has 0.0238 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume Z: has 0.0173 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Process has average database read latencies higher than 0.020.  
4/21/2008 6:25:21 PM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/21/2008 6:25:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/21/2008 6:25:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:25:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:25:21 PM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.

4/21/2008 6:25:51 PM -- Volume U: has 0.00042 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume V: has 0.00092 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume W: has 0.00017 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume X: has 0.00161 for read latency slope.  
4/21/2008 6:25:51 PM -- Volume Y: has 0.00401 for read latency slope.

4/21/2008 6:25:51 PM -- Volume Z: has 0.00079 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume U: has 0.00000 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume V: has 0.00018 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume W: has 0.00001 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume X: has 0.00001 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume Y: has 0.00020 for read latency slope.  
4/21/2008 6:26:21 PM -- Volume Z: has 0.00027 for read latency slope.  
4/21/2008 6:28:21 PM -- 939 batch transactions/sec and 2 sessions have 1486 IOPS.  
4/21/2008 6:28:21 PM -- 2 sessions have actual 1486 IOPS (target IOPS: 2500)  
4/21/2008 6:28:21 PM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume V: has 0.0117 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume W: has 0.0098 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume X: has 0.0110 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume Y: has 0.0104 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume Z: has 0.0091 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:28:21 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:28:21 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/21/2008 6:28:21 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:28:21 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:28:51 PM -- Volume U: has 0.00027 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume V: has 0.00030 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume W: has 0.00070 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume X: has 0.00027 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume Y: has 0.00120 for read latency slope.  
4/21/2008 6:28:51 PM -- Volume Z: has 0.00015 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume U: has 0.00002 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume V: has 0.00013 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume W: has 0.00002 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume X: has 0.00016 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume Y: has 0.00287 for read latency slope.  
4/21/2008 6:29:21 PM -- Volume Z: has 0.00058 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume U: has 0.00001 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume V: has 0.00017 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume W: has 0.00019 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume X: has 0.00026 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume Y: has 0.00069 for read latency slope.  
4/21/2008 6:29:51 PM -- Volume Z: has 0.00082 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume U: has 0.00036 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume V: has 0.00020 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume W: has 0.00005 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume X: has 0.00025 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume Y: has 0.00063 for read latency slope.  
4/21/2008 6:30:21 PM -- Volume Z: has 0.00033 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume U: has 0.00098 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume V: has 0.00251 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume W: has 0.00143 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume X: has 0.00136 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume Y: has 0.00273 for read latency slope.  
4/21/2008 6:30:51 PM -- Volume Z: has 0.00119 for read latency slope.  
4/21/2008 6:31:21 PM -- Volume U: has 0.00108 for read latency slope.  
4/21/2008 6:31:21 PM -- Volume V: has 0.00209 for read latency slope.  
4/21/2008 6:31:21 PM -- Volume W: has 0.00035 for read latency slope.  
4/21/2008 6:31:21 PM -- Volume X: has 0.00051 for read latency slope.  
4/21/2008 6:31:21 PM -- Volume Y: has 0.00080 for read latency slope.  
4/21/2008 6:31:21 PM -- Volume Z: has 0.00048 for read latency slope.

4/21/2008 6:31:51 PM -- Volume U: has 0.00066 for read latency slope.  
4/21/2008 6:31:51 PM -- Volume V: has 0.00014 for read latency slope.  
4/21/2008 6:31:51 PM -- Volume W: has 0.00005 for read latency slope.  
4/21/2008 6:31:51 PM -- Volume X: has 0.00073 for read latency slope.  
4/21/2008 6:31:51 PM -- Volume Y: has 0.00188 for read latency slope.  
4/21/2008 6:31:51 PM -- Volume Z: has 0.00025 for read latency slope.  
4/21/2008 6:32:21 PM -- Volume U: has 0.00013 for read latency slope.  
4/21/2008 6:32:21 PM -- Volume V: has 0.00069 for read latency slope.  
4/21/2008 6:32:21 PM -- Volume W: has 0.00018 for read latency slope.  
4/21/2008 6:32:21 PM -- Volume X: has 0.00019 for read latency slope.  
4/21/2008 6:32:21 PM -- Volume Y: has 0.00005 for read latency slope.  
4/21/2008 6:32:21 PM -- Volume Z: has 0.00023 for read latency slope.  
4/21/2008 6:32:51 PM -- Volume U: has 0.00008 for read latency slope.  
4/21/2008 6:32:51 PM -- Volume V: has 0.00029 for read latency slope.  
4/21/2008 6:32:51 PM -- Volume W: has 0.00013 for read latency slope.  
4/21/2008 6:32:51 PM -- Volume X: has 0.00022 for read latency slope.  
4/21/2008 6:32:51 PM -- Volume Y: has 0.00015 for read latency slope.  
4/21/2008 6:32:51 PM -- Volume Z: has 0.00003 for read latency slope.  
4/21/2008 6:34:52 PM -- 1705 batch transactions/sec and 4 sessions have 2835 IOPS.  
4/21/2008 6:34:52 PM -- 4 sessions have actual 2835 IOPS (target IOPS: 2500)  
4/21/2008 6:34:52 PM -- Volume U: has 0.0179 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume V: has 0.0172 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume W: has 0.0171 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume X: has 0.0162 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume Y: has 0.0194 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume Z: has 0.0137 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:34:52 PM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/21/2008 6:34:52 PM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:34:52 PM -- Volume K: has 0.0005 for Avg. Disk sec/Write.  
4/21/2008 6:34:52 PM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/21/2008 6:34:53 PM -- Performance logging ends.  
4/21/2008 6:34:53 PM -- Automatic tuning succeeded.  
4/21/2008 6:34:54 PM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/21/2008 6:34:54 PM -- Performance logging begins (interval: 15000 ms).  
4/21/2008 6:34:54 PM -- Attaining prerequisites:  
4/21/2008 6:34:54 PM -- \MSExchange Database(JetstressWin)\Database Cache Size, Last: 9663676000.0 (lower bound: 8697308000.0, upper bound: none)  
4/21/2008 8:34:56 PM -- Performance logging ends.  
4/21/2008 8:34:56 PM -- JetInterop batch transaction stats: 27913, 28365, 28059, 27973, 28022, 28064, 27951, 28110, 28027, 28030, 28009, 27956, 27877, 28098, 28045, 28016, 28332, 28560, 28051, 28082, 28203, 28003, 28003, 28053, 28545, 27930, 28015, 28185, 28170, 27909, 28105, 28078, 28024, 28258, 27991, and 27913.  
4/21/2008 8:34:56 PM -- Dispatching transactions ends.  
4/21/2008 8:34:56 PM -- Shutting down databases ...  
4/21/2008 8:36:03 PM -- Instance2092.1 (complete), Instance2092.2 (complete), Instance2092.3 (complete), Instance2092.4 (complete), Instance2092.5 (complete), Instance2092.6 (complete), Instance2092.7 (complete), Instance2092.8 (complete), Instance2092.9 (complete), Instance2092.10 (complete), Instance2092.11 (complete), Instance2092.12 (complete), Instance2092.13 (complete), Instance2092.14 (complete), Instance2092.15 (complete), Instance2092.16 (complete), Instance2092.17 (complete), Instance2092.18 (complete), Instance2092.19 (complete), Instance2092.20 (complete), Instance2092.21 (complete), Instance2092.22 (complete), Instance2092.23 (complete), Instance2092.24 (complete), Instance2092.25 (complete), Instance2092.26 (complete), Instance2092.27 (complete), Instance2092.28 (complete), Instance2092.29 (complete), Instance2092.30 (complete), Instance2092.31 (complete), Instance2092.32 (complete), Instance2092.33 (complete), Instance2092.34 (complete), Instance2092.35 (complete), and

Instance2092.36 (complete)

4/21/2008 8:36:04 PM -- Performance logging begins (interval: 30000 ms).

4/21/2008 8:36:04 PM -- Verifying database checksums ...

4/21/2008 9:44:21 PM -- U: (100% processed), V: (100% processed), W: (100% processed),  
X: (100% processed), Y: (100% processed), and Z: (100% processed)

4/21/2008 9:44:22 PM -- Performance logging ends.

4/21/2008 9:44:22 PM -- [C:\Program Files\Exchange](#)

[Jetstress\MLK\Performance\DBChecksum\\_2008\\_4\\_21\\_20\\_36\\_3.blg](#) has 136 samples.

## Appendix B: Stress Testing

### ***Stress Test Result Report***

Test Summary

**Overall Test Result** **Pass**

**Machine Name**

SVCTAG-BZKMBD1

**Test Description**

36 Storage Groups  
1 Database per Storage Group  
6 Database LUNs and 3 Log LUNs  
3 LUNs per Enclosure  
(6 data + 6 data + 3 log) \* 3  
1 GB Mailbox  
0.5 IOPS  
5000 users

**Test Start Time** 4/16/2008 6:10:02 PM

**Test End Time** 4/18/2008 2:11:21 AM

**Jetstress Version** 08.01.0177.000

**Ese Version**

08.01.0240.005

**Operating System**

Microsoft Windows Server 2003 R2 Service Pack 2  
(5.2.3790.131072)

**Performance Log**

[C:\Program Files\Exchange  
Jetstress\MLK\Stress\Tuning\\_2008\\_4\\_17\\_1\\_19\\_1.blg](C:\Program Files\Exchange Jetstress\MLK\Stress\Tuning_2008_4_17_1_19_1.blg)  
[C:\Program Files\Exchange  
Jetstress\MLK\Stress\Stress\\_2008\\_4\\_17\\_2\\_10\\_9.blg](C:\Program Files\Exchange Jetstress\MLK\Stress\Stress_2008_4_17_2_10_9.blg)  
[C:\Program Files\Exchange  
Jetstress\MLK\Stress\DBChecksum\\_2008\\_4\\_18\\_2\\_11\\_21.blg](C:\Program Files\Exchange Jetstress\MLK\Stress\DBChecksum_2008_4_18_2_11_21.blg)

Database Sizing and Throughput

**Achieved I/O per Second** 2753.609

**Target I/O per Second** 2500

**Initial database size** 5368965562368

**Final database size** 5713081466880

**Database files (count)** 36

Jetstress System Parameters

**Thread count** 4 (per-storage group)

**Log buffers** 9000

**Minimum database cache** 1152.0 MB

**Maximum database cache** 9216.0 MB

**Insert operations** 25%

**Delete operations** 10%

**Replace operations** 50%

**Read operations** 15%  
**Lazy commits** 80%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (U:)	0.013	0.003	288.676	171.223	(n/a)
Database (V:)	0.014	0.003	288.897	170.790	(n/a)
Database (W:)	0.015	0.003	288.749	170.560	(n/a)
Database (X:)	0.013	0.003	288.426	169.904	(n/a)
Database (Y:)	0.015	0.003	288.661	169.947	(n/a)
Database (Z:)	0.013	0.003	288.562	169.215	(n/a)
Log (I:)	0.000	0.000	0.000	350.022	10372.694
Log (J:)	0.000	0.000	0.000	348.939	10392.251
Log (K:)	0.000	0.000	0.000	348.852	10404.351

Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	6.086	3.590	27.619
Available MBytes	21480.745	21289.000	24343.000
Free System Page Table Entries	16756652.019	16756461.000	16756671.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	64502193.238	64356352.000	65150976.000
Pool Paged Bytes	57871376.553	55209984.000	59490304.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log4/16/2008 6:10:02 PM -- Jetstress testing begins ...  
 4/16/2008 6:10:02 PM -- Prepare testing begins ...  
 4/16/2008 6:10:02 PM -- Creating U:\Data1\Jetstress1.edb.  
 4/16/2008 6:10:02 PM -- Database cache settings: (minimum: 32.0 MB, maximum: 256.0 MB)  
 4/16/2008 6:10:02 PM -- Database flush thresholds: (start: 2.6 MB, stop: 5.1 MB)  
 4/16/2008 6:31:01 PM -- 60.0% of 138.9 GB complete (5086622 records inserted).  
 4/16/2008 6:49:02 PM -- 100.0% of 138.9 GB complete (8188396 records inserted).  
 4/16/2008 6:49:06 PM -- Duplicating 35 databases:  
 4/17/2008 1:08:10 AM -- 100.0% of 4.7 TB complete (4.7 TB duplicated).  
 4/17/2008 1:08:46 AM -- Attaching databases ...  
 4/17/2008 1:08:46 AM -- Prepare testing ends.  
 4/17/2008 1:08:46 AM -- Dispatching transactions begins ...  
 4/17/2008 1:08:46 AM -- Database cache settings: (minimum: 1.1 GB, maximum: 9.0 GB)  
 4/17/2008 1:08:46 AM -- Database flush thresholds: (start: 92.2 MB, stop: 184.3 MB)  
 4/17/2008 1:09:23 AM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1 seconds/read).  
 4/17/2008 1:09:23 AM -- Log write latency thresholds: (average: 0.01 seconds/write,

maximum: 0.1 seconds/write).

4/17/2008 1:09:23 AM -- Attaining prerequisites:

4/17/2008 1:19:01 AM -- \MSEExchange Database(JetstressWin)\Database Cache Size, Last: 8724603000.0 (lower bound: 8697308000.0, upper bound: none)

4/17/2008 1:19:03 AM -- Performance logging begins (interval: 5000 ms).

4/17/2008 1:19:03 AM -- Automatic tuning begins ...

4/17/2008 1:19:35 AM -- Volume U: has 0.00012 for read latency slope.

4/17/2008 1:19:35 AM -- Volume V: has 0.00004 for read latency slope.

4/17/2008 1:19:35 AM -- Volume W: has 0.00015 for read latency slope.

4/17/2008 1:19:35 AM -- Volume X: has 0.00007 for read latency slope.

4/17/2008 1:19:35 AM -- Volume Y: has 0.00034 for read latency slope.

4/17/2008 1:19:35 AM -- Volume Z: has 0.00016 for read latency slope.

4/17/2008 1:21:35 AM -- 2653 batch transactions/sec and 8 sessions have 3703 IOPS.

4/17/2008 1:21:35 AM -- 8 sessions have actual 3703 IOPS (target IOPS: 2500)

4/17/2008 1:21:35 AM -- Volume U: has 0.0189 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Volume V: has 0.0207 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Volume W: has 0.0293 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Volume X: has 0.0259 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Volume Y: has 0.0340 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Volume Z: has 0.0252 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Process has average database read latencies higher than 0.020.

4/17/2008 1:21:35 AM -- Volume I: has 0.0003 for Avg. Disk sec/Write.

4/17/2008 1:21:35 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Volume J: has 0.0025 for Avg. Disk sec/Write.

4/17/2008 1:21:35 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Volume K: has 0.0041 for Avg. Disk sec/Write.

4/17/2008 1:21:35 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.

4/17/2008 1:21:35 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.

4/17/2008 1:22:05 AM -- Volume U: has 0.00048 for read latency slope.

4/17/2008 1:22:05 AM -- Volume V: has 0.00051 for read latency slope.

4/17/2008 1:22:05 AM -- Volume W: has 0.00031 for read latency slope.

4/17/2008 1:22:05 AM -- Volume X: has 0.00002 for read latency slope.

4/17/2008 1:22:05 AM -- Volume Y: has 0.00062 for read latency slope.

4/17/2008 1:22:05 AM -- Volume Z: has 0.00002 for read latency slope.

4/17/2008 1:22:35 AM -- Volume U: has 0.00009 for read latency slope.

4/17/2008 1:22:35 AM -- Volume V: has 0.00024 for read latency slope.

4/17/2008 1:22:35 AM -- Volume W: has 0.00058 for read latency slope.

4/17/2008 1:22:35 AM -- Volume X: has 0.00188 for read latency slope.

4/17/2008 1:22:35 AM -- Volume Y: has 0.00185 for read latency slope.

4/17/2008 1:22:35 AM -- Volume Z: has 0.00120 for read latency slope.

4/17/2008 1:23:05 AM -- Volume U: has 0.00056 for read latency slope.

4/17/2008 1:23:05 AM -- Volume V: has 0.00031 for read latency slope.

4/17/2008 1:23:05 AM -- Volume W: has 0.00164 for read latency slope.

4/17/2008 1:23:05 AM -- Volume X: has 0.00066 for read latency slope.

4/17/2008 1:23:05 AM -- Volume Y: has 0.00008 for read latency slope.

4/17/2008 1:23:05 AM -- Volume Z: has 0.00086 for read latency slope.

4/17/2008 1:23:35 AM -- Volume U: has 0.00170 for read latency slope.

4/17/2008 1:23:35 AM -- Volume V: has 0.00196 for read latency slope.

4/17/2008 1:23:35 AM -- Volume W: has 0.00220 for read latency slope.

4/17/2008 1:23:35 AM -- Volume X: has 0.00215 for read latency slope.

4/17/2008 1:23:35 AM -- Volume Y: has 0.00271 for read latency slope.

4/17/2008 1:23:35 AM -- Volume Z: has 0.00223 for read latency slope.

4/17/2008 1:24:05 AM -- Volume U: has 0.00166 for read latency slope.

4/17/2008 1:24:05 AM -- Volume V: has 0.00177 for read latency slope.

4/17/2008 1:24:05 AM -- Volume W: has 0.00189 for read latency slope.

4/17/2008 1:24:05 AM -- Volume X: has 0.00226 for read latency slope.

4/17/2008 1:24:05 AM -- Volume Y: has 0.00329 for read latency slope.

4/17/2008 1:24:05 AM -- Volume Z: has 0.00154 for read latency slope.



4/17/2008 1:29:06 AM -- Volume Z: has 0.00148 for read latency slope.  
 4/17/2008 1:29:36 AM -- Volume U: has 0.00054 for read latency slope.  
 4/17/2008 1:29:36 AM -- Volume V: has 0.00026 for read latency slope.  
 4/17/2008 1:29:36 AM -- Volume W: has 0.00039 for read latency slope.  
 4/17/2008 1:29:36 AM -- Volume X: has 0.00013 for read latency slope.  
 4/17/2008 1:29:36 AM -- Volume Y: has 0.00100 for read latency slope.  
 4/17/2008 1:29:36 AM -- Volume Z: has 0.00054 for read latency slope.  
 4/17/2008 1:30:06 AM -- Volume U: has 0.01349 for read latency slope.  
 4/17/2008 1:30:06 AM -- Volume V: has 0.00071 for read latency slope.  
 4/17/2008 1:30:06 AM -- Volume W: has 0.00194 for read latency slope.  
 4/17/2008 1:30:06 AM -- Volume X: has 0.00142 for read latency slope.  
 4/17/2008 1:30:06 AM -- Volume Y: has 0.00760 for read latency slope.  
 4/17/2008 1:30:06 AM -- Volume Z: has 0.00104 for read latency slope.  
 4/17/2008 1:30:36 AM -- Volume U: has 0.01021 for read latency slope.  
 4/17/2008 1:30:36 AM -- Volume V: has 0.00048 for read latency slope.  
 4/17/2008 1:30:36 AM -- Volume W: has 0.00015 for read latency slope.  
 4/17/2008 1:30:36 AM -- Volume X: has 0.00060 for read latency slope.  
 4/17/2008 1:30:36 AM -- Volume Y: has 0.00059 for read latency slope.  
 4/17/2008 1:30:36 AM -- Volume Z: has 0.00039 for read latency slope.  
 4/17/2008 1:31:06 AM -- Volume U: has 0.00022 for read latency slope.  
 4/17/2008 1:31:06 AM -- Volume V: has 0.00001 for read latency slope.  
 4/17/2008 1:31:06 AM -- Volume W: has 0.00015 for read latency slope.  
 4/17/2008 1:31:06 AM -- Volume X: has 0.00027 for read latency slope.  
 4/17/2008 1:31:06 AM -- Volume Y: has 0.00014 for read latency slope.  
 4/17/2008 1:31:06 AM -- Volume Z: has 0.00023 for read latency slope.  
 4/17/2008 1:33:06 AM -- 1641 batch transactions/sec and 4 sessions have 2808 IOPS.  
 4/17/2008 1:33:06 AM -- 4 sessions have actual 2808 IOPS (target IOPS: 2500)  
 4/17/2008 1:33:06 AM -- Volume U: has 0.0149 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Volume V: has 0.0251 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Volume W: has 0.0332 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Volume X: has 0.0162 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Volume Y: has 0.0326 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Volume Z: has 0.0242 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Process has average database read latencies higher than 0.020.  
 4/17/2008 1:33:06 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
 4/17/2008 1:33:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
 4/17/2008 1:33:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
 4/17/2008 1:33:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
 4/17/2008 1:33:06 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
 4/17/2008 1:33:36 AM -- Volume U: has 0.00013 for read latency slope.  
 4/17/2008 1:33:36 AM -- Volume V: has 0.00003 for read latency slope.  
 4/17/2008 1:33:36 AM -- Volume W: has 0.00005 for read latency slope.  
 4/17/2008 1:33:36 AM -- Volume X: has 0.00004 for read latency slope.  
 4/17/2008 1:33:36 AM -- Volume Y: has 0.00009 for read latency slope.  
 4/17/2008 1:33:36 AM -- Volume Z: has 0.00004 for read latency slope.  
 4/17/2008 1:35:36 AM -- 956 batch transactions/sec and 2 sessions have 1563 IOPS.  
 4/17/2008 1:35:36 AM -- 2 sessions have actual 1563 IOPS (target IOPS: 2500)  
 4/17/2008 1:35:36 AM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
 4/17/2008 1:35:36 AM -- Volume V: has 0.0096 for Avg. Disk sec/Read.  
 4/17/2008 1:35:36 AM -- Volume W: has 0.0100 for Avg. Disk sec/Read.  
 4/17/2008 1:35:36 AM -- Volume X: has 0.0098 for Avg. Disk sec/Read.  
 4/17/2008 1:35:36 AM -- Volume Y: has 0.0112 for Avg. Disk sec/Read.  
 4/17/2008 1:35:36 AM -- Volume Z: has 0.0095 for Avg. Disk sec/Read.  
 4/17/2008 1:35:36 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
 4/17/2008 1:35:36 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
 4/17/2008 1:35:36 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.

4/17/2008 1:35:36 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:35:36 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:36:06 AM -- Volume U: has 0.00016 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume V: has 0.00004 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume W: has 0.00019 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume X: has 0.00023 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume Y: has 0.00014 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume Z: has 0.00016 for read latency slope.  
4/17/2008 1:38:06 AM -- 1701 batch transactions/sec and 4 sessions have 2810 IOPS.  
4/17/2008 1:38:06 AM -- 4 sessions have actual 2810 IOPS (target IOPS: 2500)  
4/17/2008 1:38:06 AM -- Volume U: has 0.0193 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume V: has 0.0170 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume W: has 0.0194 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume X: has 0.0190 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume Y: has 0.0264 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume Z: has 0.0271 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:38:06 AM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/17/2008 1:38:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 1:38:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:38:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Operation mix: Sessions 3, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:38:36 AM -- Volume U: has 0.00022 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume V: has 0.00018 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume W: has 0.00036 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume X: has 0.00065 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume Y: has 0.00037 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume Z: has 0.00080 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume U: has 0.00001 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume V: has 0.00010 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume W: has 0.00003 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume X: has 0.00012 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume Y: has 0.00002 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume Z: has 0.00003 for read latency slope.  
4/17/2008 1:41:06 AM -- 1350 batch transactions/sec and 3 sessions have 2235 IOPS.  
4/17/2008 1:41:06 AM -- 3 sessions have actual 2235 IOPS (target IOPS: 2500)  
4/17/2008 1:41:06 AM -- Volume U: has 0.0124 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume V: has 0.0136 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume W: has 0.0116 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume X: has 0.0120 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume Y: has 0.0136 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume Z: has 0.0123 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:41:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:41:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:41:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:41:36 AM -- Volume U: has 0.00177 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume V: has 0.00153 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume W: has 0.00176 for read latency slope.

4/17/2008 1:41:36 AM -- Volume X: has 0.00125 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume Y: has 0.00089 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume Z: has 0.00089 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume U: has 0.00018 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume V: has 0.00009 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume W: has 0.00110 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume X: has 0.00020 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume Y: has 0.00004 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume Z: has 0.00033 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume U: has 0.00018 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume V: has 0.00004 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume W: has 0.00004 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume X: has 0.00045 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume Y: has 0.00101 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume Z: has 0.00021 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume U: has 0.00006 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume V: has 0.00051 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume W: has 0.00065 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume X: has 0.00007 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume Y: has 0.00030 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume Z: has 0.00025 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume U: has 0.00004 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume V: has 0.00003 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume W: has 0.00012 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume X: has 0.00001 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume Y: has 0.00034 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume Z: has 0.00005 for read latency slope.  
4/17/2008 1:45:36 AM -- 1737 batch transactions/sec and 4 sessions have 2896 IOPS.  
4/17/2008 1:45:36 AM -- 4 sessions have actual 2896 IOPS (target IOPS: 2500)  
4/17/2008 1:45:36 AM -- Volume U: has 0.0188 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume V: has 0.0179 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume W: has 0.0276 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume X: has 0.0218 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume Y: has 0.0234 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume Z: has 0.0174 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:45:36 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:45:36 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume J: has 0.0004 for Avg. Disk sec/Write.  
4/17/2008 1:45:36 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 1:45:36 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:46:06 AM -- Volume U: has 0.00006 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume V: has 0.00010 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume W: has 0.00041 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume X: has 0.00012 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume Y: has 0.00018 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume Z: has 0.00022 for read latency slope.  
4/17/2008 1:48:06 AM -- 914 batch transactions/sec and 2 sessions have 1534 IOPS.  
4/17/2008 1:48:06 AM -- 2 sessions have actual 1534 IOPS (target IOPS: 2500)  
4/17/2008 1:48:06 AM -- Volume U: has 0.0097 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume V: has 0.0099 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume W: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume X: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume Y: has 0.0106 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume Z: has 0.0095 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.

4/17/2008 1:48:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:48:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:48:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:48:37 AM -- Volume U: has 0.00008 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume V: has 0.00003 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume W: has 0.00037 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume X: has 0.00018 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume Y: has 0.00018 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume Z: has 0.00020 for read latency slope.  
4/17/2008 1:50:37 AM -- 1705 batch transactions/sec and 4 sessions have 2845 IOPS.  
4/17/2008 1:50:37 AM -- 4 sessions have actual 2845 IOPS (target IOPS: 2500)  
4/17/2008 1:50:37 AM -- Volume U: has 0.0156 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume V: has 0.0187 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume W: has 0.0183 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume X: has 0.0165 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume Y: has 0.0204 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume Z: has 0.0192 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:50:37 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:50:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:50:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:50:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:51:07 AM -- Volume U: has 0.00008 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume V: has 0.00023 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume W: has 0.00037 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume X: has 0.00047 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume Y: has 0.00011 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume Z: has 0.00066 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume U: has 0.00011 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume V: has 0.00007 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume W: has 0.00008 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume X: has 0.00011 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume Y: has 0.00004 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume Z: has 0.00013 for read latency slope.  
4/17/2008 1:53:37 AM -- 908 batch transactions/sec and 2 sessions have 1504 IOPS.  
4/17/2008 1:53:37 AM -- 2 sessions have actual 1504 IOPS (target IOPS: 2500)  
4/17/2008 1:53:37 AM -- Volume U: has 0.0098 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume V: has 0.0095 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume W: has 0.0098 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume X: has 0.0101 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume Y: has 0.0106 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume Z: has 0.0097 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:53:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:53:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:53:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:54:07 AM -- Volume U: has 0.00008 for read latency slope.

4/17/2008 1:54:07 AM -- Volume V: has 0.00020 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume W: has 0.00016 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume X: has 0.00015 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume Y: has 0.00002 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume Z: has 0.00004 for read latency slope.  
4/17/2008 1:56:07 AM -- 1725 batch transactions/sec and 4 sessions have 2789 IOPS.  
4/17/2008 1:56:07 AM -- 4 sessions have actual 2789 IOPS (target IOPS: 2500)  
4/17/2008 1:56:07 AM -- Volume U: has 0.0143 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume V: has 0.0212 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume W: has 0.0189 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume X: has 0.0172 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume Y: has 0.0199 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume Z: has 0.0174 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:56:07 AM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/17/2008 1:56:07 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:56:07 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 1:56:07 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:56:37 AM -- Volume U: has 0.00132 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume V: has 0.00557 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume W: has 0.00059 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume X: has 0.00105 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume Y: has 0.00112 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume Z: has 0.00051 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume U: has 0.00001 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume V: has 0.00001 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume W: has 0.00009 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume X: has 0.00004 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume Y: has 0.00021 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume Z: has 0.00008 for read latency slope.  
4/17/2008 1:59:07 AM -- 884 batch transactions/sec and 2 sessions have 1495 IOPS.  
4/17/2008 1:59:07 AM -- 2 sessions have actual 1495 IOPS (target IOPS: 2500)  
4/17/2008 1:59:07 AM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume V: has 0.0103 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume W: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume X: has 0.0095 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume Y: has 0.0101 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume Z: has 0.0093 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:59:07 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:59:07 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:59:07 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:59:37 AM -- Volume U: has 0.00014 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume V: has 0.00006 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume W: has 0.00026 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume X: has 0.00013 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume Y: has 0.00019 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume Z: has 0.00013 for read latency slope.  
4/17/2008 2:01:37 AM -- 1714 batch transactions/sec and 4 sessions have 2819 IOPS.  
4/17/2008 2:01:37 AM -- 4 sessions have actual 2819 IOPS (target IOPS: 2500)  
4/17/2008 2:01:37 AM -- Volume U: has 0.0154 for Avg. Disk sec/Read.

4/17/2008 2:01:37 AM -- Volume V: has 0.0177 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume W: has 0.0187 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume X: has 0.0163 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume Y: has 0.0203 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume Z: has 0.0179 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 2:01:37 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 2:01:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 2:01:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 2:01:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 2:02:07 AM -- Volume U: has 0.00030 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume V: has 0.00112 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume W: has 0.00226 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume X: has 0.00143 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume Y: has 0.00172 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume Z: has 0.00150 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume U: has 0.00004 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume V: has 0.00001 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume W: has 0.00003 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume X: has 0.00004 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume Y: has 0.00005 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume Z: has 0.00011 for read latency slope.  
4/17/2008 2:04:37 AM -- 936 batch transactions/sec and 2 sessions have 1536 IOPS.  
4/17/2008 2:04:37 AM -- 2 sessions have actual 1536 IOPS (target IOPS: 2500)  
4/17/2008 2:04:37 AM -- Volume U: has 0.0104 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume V: has 0.0100 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume W: has 0.0101 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume X: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume Y: has 0.0103 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume Z: has 0.0098 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 2:04:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 2:04:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 2:04:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 2:05:07 AM -- Volume U: has 0.00003 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume V: has 0.00009 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume W: has 0.00012 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume X: has 0.00014 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume Y: has 0.00063 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume Z: has 0.00008 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume U: has 0.00021 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume V: has 0.00009 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume W: has 0.00051 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume X: has 0.00083 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume Y: has 0.00041 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume Z: has 0.00030 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume U: has 0.00036 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume V: has 0.00030 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume W: has 0.00035 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume X: has 0.00063 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume Y: has 0.00073 for read latency slope.

4/17/2008 2:06:07 AM -- Volume Z: has 0.00033 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume U: has 0.00057 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume V: has 0.00005 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume W: has 0.00006 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume X: has 0.00031 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume Y: has 0.00003 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume Z: has 0.00002 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume U: has 0.00016 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume V: has 0.00014 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume W: has 0.00016 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume X: has 0.00133 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume Y: has 0.00160 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume Z: has 0.00062 for read latency slope.  
4/17/2008 2:07:37 AM -- Volume U: has 0.00009 for read latency slope.  
4/17/2008 2:07:37 AM -- Volume V: has 0.00030 for read latency slope.  
4/17/2008 2:07:37 AM -- Volume W: has 0.00016 for read latency slope.  
4/17/2008 2:07:37 AM -- Volume X: has 0.00008 for read latency slope.  
4/17/2008 2:07:37 AM -- Volume Y: has 0.00060 for read latency slope.  
4/17/2008 2:07:37 AM -- Volume Z: has 0.00013 for read latency slope.  
4/17/2008 2:08:07 AM -- Volume U: has 0.00005 for read latency slope.  
4/17/2008 2:08:07 AM -- Volume V: has 0.00007 for read latency slope.  
4/17/2008 2:08:07 AM -- Volume W: has 0.00038 for read latency slope.  
4/17/2008 2:08:07 AM -- Volume X: has 0.00013 for read latency slope.  
4/17/2008 2:08:07 AM -- Volume Y: has 0.00035 for read latency slope.  
4/17/2008 2:08:07 AM -- Volume Z: has 0.00007 for read latency slope.  
4/17/2008 2:10:07 AM -- 1712 batch transactions/sec and 4 sessions have 2851 IOPS.  
4/17/2008 2:10:07 AM -- 4 sessions have actual 2851 IOPS (target IOPS: 2500)  
4/17/2008 2:10:07 AM -- Volume U: has 0.0158 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume V: has 0.0180 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume W: has 0.0177 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume X: has 0.0176 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume Y: has 0.0177 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume Z: has 0.0168 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 2:10:07 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 2:10:07 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:10:07 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 2:10:07 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:10:08 AM -- Performance logging ends.  
4/17/2008 2:10:08 AM -- Automatic tuning succeeded.  
4/17/2008 2:10:10 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 2:10:10 AM -- Performance logging begins (interval: 15000 ms).  
4/17/2008 2:10:10 AM -- Attaining prerequisites:  
4/17/2008 2:10:10 AM -- \MSEExchange Database(JetstressWin)\Database Cache Size, Last: 9654862000.0 (lower bound: 8697308000.0, upper bound: none)  
4/18/2008 2:10:12 AM -- Performance logging ends.  
4/18/2008 2:10:12 AM -- JetInterop batch transaction stats: 230619, 231388, 231948, 231489, 231889, 231928, 230975, 231239, 231705, 231418, 231443, 231820, 232176, 231498, 230860, 230711, 230989, 230515, 231172, 230870, 230989, 231057, 231886, 231212, 231347, 230980, 231263, 230926, 230789, 230979, 231547, 230138, 231002, 231296, 231514, and 230958.  
4/18/2008 2:10:13 AM -- Dispatching transactions ends.  
4/18/2008 2:10:13 AM -- Shutting down databases ...  
4/18/2008 2:11:21 AM -- Instance720.1 (complete), Instance720.2 (complete), Instance720.3 (complete), Instance720.4 (complete), Instance720.5 (complete), Instance720.6 (complete), Instance720.7 (complete), Instance720.8 (complete), Instance720.9 (complete), Instance720.10 (complete), Instance720.11 (complete),

Instance720.12 (complete), Instance720.13 (complete), Instance720.14 (complete), Instance720.15 (complete), Instance720.16 (complete), Instance720.17 (complete), Instance720.18 (complete), Instance720.19 (complete), Instance720.20 (complete), Instance720.21 (complete), Instance720.22 (complete), Instance720.23 (complete), Instance720.24 (complete), Instance720.25 (complete), Instance720.26 (complete), Instance720.27 (complete), Instance720.28 (complete), Instance720.29 (complete), Instance720.30 (complete), Instance720.31 (complete), Instance720.32 (complete), Instance720.33 (complete), Instance720.34 (complete), Instance720.35 (complete), and Instance720.36 (complete)

4/18/2008 2:11:21 AM -- Performance logging begins (interval: 30000 ms).

4/18/2008 2:11:21 AM -- Verifying database checksums ...

4/18/2008 3:22:22 AM -- U: (100% processed), V: (100% processed), W: (100% processed), X: (100% processed), Y: (100% processed), and Z: (100% processed)

4/18/2008 3:22:23 AM -- Performance logging ends.

4/18/2008 3:22:23 AM -- [C:\Program Files\Exchange Jetstress\MLK\Stress\DBChecksum\\_2008\\_4\\_18\\_2\\_11\\_21.blg](#) has 142 samples.

4/18/2008 3:22:25 AM -- [C:\Program Files\Exchange Jetstress\MLK\Stress\DBChecksum\\_2008\\_4\\_18\\_2\\_11\\_21.html](#) is saved.

4/18/2008 3:22:25 AM -- Verifying log checksums ...

4/18/2008 3:24:27 AM -- I:\Log1 (21 logs passed), I:\Log2 (22 logs passed), I:\Log3 (22 logs passed), I:\Log4 (22 logs passed), I:\Log5 (22 logs passed), I:\Log6 (21 logs passed), I:\Log7 (22 logs passed), I:\Log8 (22 logs passed), I:\Log9 (21 logs passed), I:\Log10 (21 logs passed), I:\Log11 (22 logs passed), I:\Log12 (22 logs passed), J:\Log1 (22 logs passed), J:\Log2 (22 logs passed), J:\Log3 (22 logs passed), J:\Log4 (22 logs passed), J:\Log5 (22 logs passed), J:\Log6 (22 logs passed), J:\Log7 (22 logs passed), J:\Log8 (22 logs passed), J:\Log9 (21 logs passed), J:\Log10 (21 logs passed), J:\Log11 (21 logs passed), J:\Log12 (21 logs passed), K:\Log1 (22 logs passed), K:\Log2 (22 logs passed), K:\Log3 (21 logs passed), K:\Log4 (22 logs passed), K:\Log5 (22 logs passed), K:\Log6 (22 logs passed), K:\Log7 (22 logs passed), K:\Log8 (22 logs passed), K:\Log9 (22 logs passed), K:\Log10 (21 logs passed), K:\Log11 (22 logs passed), and K:\Log12 (21 logs passed)

4/18/2008 3:24:27 AM -- [C:\Program Files\Exchange Jetstress\MLK\Stress\Stress\\_2008\\_4\\_17\\_2\\_10\\_9.blg](#) has 5753 samples.

4/18/2008 3:24:27 AM -- Creating test report ...

4/18/2008 3:26:49 AM -- Volume U: has 0.0134 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume V: has 0.0140 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume W: has 0.0149 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume X: has 0.0134 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume Y: has 0.0148 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume Z: has 0.0131 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.

4/18/2008 3:26:49 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.

4/18/2008 3:26:49 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.

4/18/2008 3:26:49 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.

4/18/2008 3:26:49 AM -- Test has 0 Maximum Database Page Fault Stalls/sec.

4/18/2008 3:26:49 AM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.

4/18/2008 3:26:49 AM -- [C:\Program Files\Exchange Jetstress\MLK\Stress\Stress\\_2008\\_4\\_17\\_2\\_10\\_9.xml](#) has 5752 samples queried.

## Appendix C: Streaming Backup Testing

### *Streaming backup Test Result Report*

Streaming Backup Statistics - All

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance2444.1	142223.02	01:24:14	28.14
Instance2444.2	142223.02	01:08:04	34.82
Instance2444.3	142223.02	01:22:24	28.76
Instance2444.4	142223.02	00:51:53	45.68
Instance2444.5	142223.02	01:18:47	30.08
Instance2444.6	142223.02	00:37:03	63.96
Instance2444.7	142223.02	00:55:47	42.48
Instance2444.8	142223.02	01:05:38	36.11
Instance2444.9	142223.02	01:14:19	31.89
Instance2444.10	142223.02	01:12:00	32.92
Instance2444.11	142223.02	00:23:14	102.02
Instance2444.12	142223.02	00:47:37	49.77
Instance2444.13	142223.02	01:33:36	25.32
Instance2444.14	142223.02	01:32:45	25.55
Instance2444.15	142223.02	01:19:57	29.64
Instance2444.16	142223.02	01:04:15	36.89
Instance2444.17	142223.02	01:23:09	28.50
Instance2444.18	142223.02	01:20:07	29.59
Instance2444.19	142223.02	01:24:28	28.06
Instance2444.20	142223.02	00:53:35	44.22
Instance2444.21	142223.02	01:26:02	27.55
Instance2444.22	142223.02	01:06:43	35.52
Instance2444.23	142223.02	01:12:55	32.50
Instance2444.24	142223.02	01:17:38	30.53
Instance2444.25	142223.02	01:31:19	25.95
Instance2444.26	142223.02	01:24:44	27.97
Instance2444.27	142223.02	01:37:42	24.26
Instance2444.28	142223.02	01:30:48	26.10
Instance2444.29	142223.02	01:21:55	28.93
Instance2444.30	142223.02	01:37:50	24.23
Instance2444.31	142223.02	01:05:44	36.05
Instance2444.32	142223.02	01:19:52	29.68
Instance2444.33	142223.02	01:33:18	25.40
Instance2444.34	142223.02	01:33:06	25.46
Instance2444.35	142223.02	01:33:40	25.30
Instance2444.36	142223.02	01:28:08	26.89

### Jetstress System Parameters

**Thread count** 8 (per-storage group)  
**Log buffers** 9000  
**Minimum database cache** 1152.0 MB  
**Maximum database cache** 9216.0 MB  
**Insert operations** 25%  
**Delete operations** 10%  
**Replace operations** 50%  
**Read operations** 15%  
**Lazy commits** 80%

### Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (U:)	0.003	6.50832468470889E-06	1167.337	0.032	(n/a)
Database (V:)	0.002	1.4763488305268E-05	1163.740	0.031	(n/a)
Database (W:)	0.004	1.00818660868621E-05	1166.561	0.031	(n/a)
Database (X:)	0.003	1.25809542690986E-05	1166.633	0.031	(n/a)
Database (Y:)	0.005	6.83597139782707E-06	1164.217	0.020	(n/a)
Database (Z:)	0.004	9.29995568986732E-06	1166.425	0.031	(n/a)
Log (I:)	0.000	1.10570522803295E-05	0.000	0.052	301.102
Log (J:)	0.000	2.33253719361967E-05	0.000	0.049	278.476
Log (K:)	0.000	1.30776509768642E-05	0.000	0.041	245.132

### Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	18.633	1.719	23.686
Available MBytes	29957.759	29050.000	30814.000
Free System Page Table Entries	16756481.000	16756481.000	16756481.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	72459164.226	71671808.000	72843264.000
Pool Paged Bytes	55599167.015	54022144.000	55873536.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log4/22/2008 10:13:18 AM -- Jetstress testing begins ...

4/22/2008 10:13:18 AM -- Prepare testing begins ...  
 4/22/2008 10:13:18 AM -- Creating U:\Data1\Jetstress1.edb.  
 4/22/2008 10:13:18 AM -- Database cache settings: (minimum: 32.0 MB, maximum: 256.0 MB)  
 4/22/2008 10:13:18 AM -- Database flush thresholds: (start: 2.6 MB, stop: 5.1 MB)  
 4/22/2008 10:23:19 AM -- 60.0% of 138.9 GB complete (5086582 records inserted).  
 4/22/2008 10:41:29 AM -- 100.0% of 138.9 GB complete (8198959 records inserted).  
 4/22/2008 10:41:33 AM -- Duplicating 35 databases:  
 4/22/2008 5:11:43 PM -- 100.0% of 4.7 TB complete (4.7 TB duplicated).  
 4/22/2008 5:12:19 PM -- Attaching databases ...  
 4/22/2008 5:12:19 PM -- Prepare testing ends.  
 4/22/2008 5:12:57 PM -- Performance logging begins (interval: 30000 ms).  
 4/22/2008 5:12:57 PM -- Streaming backup databases ...  
 4/22/2008 6:50:49 PM -- Performance logging ends.  
 4/22/2008 6:50:49 PM -- Instance2444.1 (100% processed), Instance2444.2 (100% processed), Instance2444.3 (100% processed), Instance2444.4 (100% processed), Instance2444.5 (100% processed), Instance2444.6 (100% processed), Instance2444.7 (100% processed), Instance2444.8 (100% processed), Instance2444.9 (100% processed), Instance2444.10 (100% processed), Instance2444.11 (100% processed), Instance2444.12 (100% processed), Instance2444.13 (100% processed), Instance2444.14 (100% processed), Instance2444.15 (100% processed), Instance2444.16 (100% processed), Instance2444.17 (100% processed), Instance2444.18 (100% processed), Instance2444.19 (100% processed), Instance2444.20 (100% processed), Instance2444.21 (100% processed), Instance2444.22 (100% processed), Instance2444.23 (100% processed), Instance2444.24 (100% processed), Instance2444.25 (100% processed), Instance2444.26 (100% processed), Instance2444.27 (100% processed), Instance2444.28 (100% processed), Instance2444.29 (100% processed), Instance2444.30 (100% processed), Instance2444.31 (100% processed), Instance2444.32 (100% processed), Instance2444.33 (100% processed), Instance2444.34 (100% processed), Instance2444.35 (100% processed), and Instance2444.36 (100% processed)  
 4/22/2008 6:50:49 PM -- [C:\Program Files\Exchange Jetstress\MLK\StreamingBackup\StreamingBackup\\_2008\\_4\\_22\\_17\\_12\\_19.blg](C:\Program Files\Exchange Jetstress\MLK\StreamingBackup\StreamingBackup_2008_4_22_17_12_19.blg) has 195 samples.  
 4/22/2008 6:50:49 PM -- Creating test report ...

## Database Checksum Test Result Report

### Checksum Statistics - All

Database	Seen pages	Bad pages	Correctable pages	Wrong page no pages	File length / seconds taken
U:\Data1\Jetstress1.edb	19368594	0	0	0	151317 MBytes / 665 seconds
U:\Data2\Jetstress1.edb	19371154	0	0	0	151337 MBytes / 533 seconds
U:\Data3\Jetstress1.edb	19373714	0	0	0	151357 MBytes / 654 seconds
U:\Data4\Jetstress1.edb	19364498	0	0	0	151285 MBytes /

				584 seconds	
U:\Data5\Jetstress1.edb	19374482	0	0	0	151363 MBytes / 653 seconds
U:\Data6\Jetstress1.edb	19369106	0	0	0	151321 MBytes / 656 seconds
V:\Data7\Jetstress1.edb	19367314	0	0	0	151307 MBytes / 576 seconds
V:\Data8\Jetstress1.edb	19369618	0	0	0	151325 MBytes / 716 seconds
V:\Data9\Jetstress1.edb	19388306	0	0	0	151471 MBytes / 557 seconds
V:\Data10\Jetstress1.edb	19366290	0	0	0	151299 MBytes / 669 seconds
V:\Data11\Jetstress1.edb	19392146	0	0	0	151501 MBytes / 679 seconds
V:\Data12\Jetstress1.edb	19381906	0	0	0	151421 MBytes / 583 seconds
W:\Data1\Jetstress1.edb	19372690	0	0	0	151349 MBytes / 753 seconds
W:\Data2\Jetstress1.edb	19389842	0	0	0	151483 MBytes / 738 seconds
W:\Data3\Jetstress1.edb	19372690	0	0	0	151349 MBytes / 658 seconds
W:\Data4\Jetstress1.edb	19373714	0	0	0	151357 MBytes / 571 seconds
W:\Data5\Jetstress1.edb	19351186	0	0	0	151181 MBytes / 606 seconds
W:\Data6\Jetstress1.edb	19368338	0	0	0	151315 MBytes / 566 seconds
X:\Data7\Jetstress1.edb	19379602	0	0	0	151403 MBytes / 704 seconds
X:\Data8\Jetstress1.edb	19373714	0	0	0	151357 MBytes / 668 seconds

X:\Data9\Jetstress1.edb	19376530	0	0	0	151379 MBytes / 777 seconds
X:\Data10\Jetstress1.edb	19368850	0	0	0	151319 MBytes / 570 seconds
X:\Data11\Jetstress1.edb	19366034	0	0	0	151297 MBytes / 569 seconds
X:\Data12\Jetstress1.edb	19360146	0	0	0	151251 MBytes / 518 seconds
Y:\Data1\Jetstress1.edb	19382674	0	0	0	151427 MBytes / 733 seconds
Y:\Data2\Jetstress1.edb	19357074	0	0	0	151227 MBytes / 807 seconds
Y:\Data3\Jetstress1.edb	19381906	0	0	0	151421 MBytes / 685 seconds
Y:\Data4\Jetstress1.edb	19371154	0	0	0	151337 MBytes / 681 seconds
Y:\Data5\Jetstress1.edb	19382162	0	0	0	151423 MBytes / 707 seconds
Y:\Data6\Jetstress1.edb	19371666	0	0	0	151341 MBytes / 645 seconds
Z:\Data7\Jetstress1.edb	19370386	0	0	0	151331 MBytes / 812 seconds
Z:\Data8\Jetstress1.edb	19356562	0	0	0	151223 MBytes / 643 seconds
Z:\Data9\Jetstress1.edb	19363474	0	0	0	151277 MBytes / 582 seconds
Z:\Data10\Jetstress1.edb	19378834	0	0	0	151397 MBytes / 714 seconds
Z:\Data11\Jetstress1.edb	19369874	0	0	0	151327 MBytes / 602 seconds
Z:\Data12\Jetstress1.edb	19371410	0	0	0	151339 MBytes / 606 seconds
(Sum)	697397640	0	0	0	5448419

MBytes / 4260 seconds
-----------------------------

#### Disk Subsystem Performance (of checksum)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec
U:	0.226	0.000	3899.063	0.000
V:	0.241	0.000	3847.098	0.000
W:	0.228	0.000	3733.577	0.000
X:	0.228	0.000	3823.207	0.000
Y:	0.258	0.004	3417.147	0.002
Z:	0.225	0.000	3678.353	0.000

#### Memory System Performance (of checksum)

Counter	Average	Minimum	Maximum
% Processor Time	42.947	4.375	54.766
Available MBytes	30691.338	30656.000	30978.000
Free System Page Table Entries	16756503.000	16756503.000	16756503.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	77821173.183	77529088.000	78303232.000
Pool Paged Bytes	61016265.915	60715008.000	61538304.000

Test Log4/16/2008 6:10:02 PM -- Jetstress testing begins ...  
 4/16/2008 6:10:02 PM -- Prepare testing begins ...  
 4/16/2008 6:10:02 PM -- Creating U:\Data1\Jetstress1.edb.  
 4/16/2008 6:10:02 PM -- Database cache settings: (minimum: 32.0 MB, maximum: 256.0 MB)  
 4/16/2008 6:10:02 PM -- Database flush thresholds: (start: 2.6 MB, stop: 5.1 MB)  
 4/16/2008 6:31:01 PM -- 60.0% of 138.9 GB complete (5086622 records inserted).  
 4/16/2008 6:49:02 PM -- 100.0% of 138.9 GB complete (8188396 records inserted).  
 4/16/2008 6:49:06 PM -- Duplicating 35 databases:  
 4/17/2008 1:08:10 AM -- 100.0% of 4.7 TB complete (4.7 TB duplicated).  
 4/17/2008 1:08:46 AM -- Attaching databases ...  
 4/17/2008 1:08:46 AM -- Prepare testing ends.  
 4/17/2008 1:08:46 AM -- Dispatching transactions begins ...  
 4/17/2008 1:08:46 AM -- Database cache settings: (minimum: 1.1 GB, maximum: 9.0 GB)  
 4/17/2008 1:08:46 AM -- Database flush thresholds: (start: 92.2 MB, stop: 184.3 MB)  
 4/17/2008 1:09:23 AM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1 seconds/read).  
 4/17/2008 1:09:23 AM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).  
 4/17/2008 1:09:23 AM -- Attaining prerequisites:  
 4/17/2008 1:19:01 AM -- \MSExchange Database(JetstressWin)\Database Cache Size, Last: 8724603000.0 (lower bound: 8697308000.0, upper bound: none)  
 4/17/2008 1:19:03 AM -- Performance logging begins (interval: 5000 ms).  
 4/17/2008 1:19:03 AM -- Automatic tuning begins ...  
 4/17/2008 1:19:35 AM -- Volume U: has 0.00012 for read latency slope.  
 4/17/2008 1:19:35 AM -- Volume V: has 0.00004 for read latency slope.  
 4/17/2008 1:19:35 AM -- Volume W: has 0.00015 for read latency slope.  
 4/17/2008 1:19:35 AM -- Volume X: has 0.00007 for read latency slope.  
 4/17/2008 1:19:35 AM -- Volume Y: has 0.00034 for read latency slope.

4/17/2008 1:19:35 AM -- Volume Z: has 0.00016 for read latency slope.  
4/17/2008 1:21:35 AM -- 2653 batch transactions/sec and 8 sessions have 3703 IOPS.  
4/17/2008 1:21:35 AM -- 8 sessions have actual 3703 IOPS (target IOPS: 2500)  
4/17/2008 1:21:35 AM -- Volume U: has 0.0189 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Volume V: has 0.0207 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Volume W: has 0.0293 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Volume X: has 0.0259 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Volume Y: has 0.0340 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Volume Z: has 0.0252 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:21:35 AM -- Volume I: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 1:21:35 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Volume J: has 0.0025 for Avg. Disk sec/Write.  
4/17/2008 1:21:35 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Volume K: has 0.0041 for Avg. Disk sec/Write.  
4/17/2008 1:21:35 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:21:35 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:22:05 AM -- Volume U: has 0.00048 for read latency slope.  
4/17/2008 1:22:05 AM -- Volume V: has 0.00051 for read latency slope.  
4/17/2008 1:22:05 AM -- Volume W: has 0.00031 for read latency slope.  
4/17/2008 1:22:05 AM -- Volume X: has 0.00002 for read latency slope.  
4/17/2008 1:22:05 AM -- Volume Y: has 0.00062 for read latency slope.  
4/17/2008 1:22:05 AM -- Volume Z: has 0.00002 for read latency slope.  
4/17/2008 1:22:35 AM -- Volume U: has 0.00009 for read latency slope.  
4/17/2008 1:22:35 AM -- Volume V: has 0.00024 for read latency slope.  
4/17/2008 1:22:35 AM -- Volume W: has 0.00058 for read latency slope.  
4/17/2008 1:22:35 AM -- Volume X: has 0.00188 for read latency slope.  
4/17/2008 1:22:35 AM -- Volume Y: has 0.00185 for read latency slope.  
4/17/2008 1:22:35 AM -- Volume Z: has 0.00120 for read latency slope.  
4/17/2008 1:23:05 AM -- Volume U: has 0.00056 for read latency slope.  
4/17/2008 1:23:05 AM -- Volume V: has 0.00031 for read latency slope.  
4/17/2008 1:23:05 AM -- Volume W: has 0.00164 for read latency slope.  
4/17/2008 1:23:05 AM -- Volume X: has 0.00066 for read latency slope.  
4/17/2008 1:23:05 AM -- Volume Y: has 0.00008 for read latency slope.  
4/17/2008 1:23:05 AM -- Volume Z: has 0.00086 for read latency slope.  
4/17/2008 1:23:35 AM -- Volume U: has 0.00170 for read latency slope.  
4/17/2008 1:23:35 AM -- Volume V: has 0.00196 for read latency slope.  
4/17/2008 1:23:35 AM -- Volume W: has 0.00220 for read latency slope.  
4/17/2008 1:23:35 AM -- Volume X: has 0.00215 for read latency slope.  
4/17/2008 1:23:35 AM -- Volume Y: has 0.00271 for read latency slope.  
4/17/2008 1:23:35 AM -- Volume Z: has 0.00223 for read latency slope.  
4/17/2008 1:24:05 AM -- Volume U: has 0.00166 for read latency slope.  
4/17/2008 1:24:05 AM -- Volume V: has 0.00177 for read latency slope.  
4/17/2008 1:24:05 AM -- Volume W: has 0.00189 for read latency slope.  
4/17/2008 1:24:05 AM -- Volume X: has 0.00226 for read latency slope.  
4/17/2008 1:24:05 AM -- Volume Y: has 0.00329 for read latency slope.  
4/17/2008 1:24:05 AM -- Volume Z: has 0.00154 for read latency slope.  
4/17/2008 1:24:35 AM -- Volume U: has 0.00024 for read latency slope.  
4/17/2008 1:24:35 AM -- Volume V: has 0.00014 for read latency slope.  
4/17/2008 1:24:35 AM -- Volume W: has 0.00022 for read latency slope.  
4/17/2008 1:24:35 AM -- Volume X: has 0.00001 for read latency slope.  
4/17/2008 1:24:35 AM -- Volume Y: has 0.00067 for read latency slope.  
4/17/2008 1:24:35 AM -- Volume Z: has 0.00080 for read latency slope.  
4/17/2008 1:25:05 AM -- Volume U: has 0.00156 for read latency slope.  
4/17/2008 1:25:05 AM -- Volume V: has 0.00019 for read latency slope.  
4/17/2008 1:25:05 AM -- Volume W: has 0.00092 for read latency slope.  
4/17/2008 1:25:05 AM -- Volume X: has 0.00046 for read latency slope.  
4/17/2008 1:25:05 AM -- Volume Y: has 0.00013 for read latency slope.



4/17/2008 1:30:06 AM -- Volume Y: has 0.00760 for read latency slope.  
4/17/2008 1:30:06 AM -- Volume Z: has 0.00104 for read latency slope.  
4/17/2008 1:30:36 AM -- Volume U: has 0.01021 for read latency slope.  
4/17/2008 1:30:36 AM -- Volume V: has 0.00048 for read latency slope.  
4/17/2008 1:30:36 AM -- Volume W: has 0.00015 for read latency slope.  
4/17/2008 1:30:36 AM -- Volume X: has 0.00060 for read latency slope.  
4/17/2008 1:30:36 AM -- Volume Y: has 0.00059 for read latency slope.  
4/17/2008 1:30:36 AM -- Volume Z: has 0.00039 for read latency slope.  
4/17/2008 1:31:06 AM -- Volume U: has 0.00022 for read latency slope.  
4/17/2008 1:31:06 AM -- Volume V: has 0.00001 for read latency slope.  
4/17/2008 1:31:06 AM -- Volume W: has 0.00015 for read latency slope.  
4/17/2008 1:31:06 AM -- Volume X: has 0.00027 for read latency slope.  
4/17/2008 1:31:06 AM -- Volume Y: has 0.00014 for read latency slope.  
4/17/2008 1:31:06 AM -- Volume Z: has 0.00023 for read latency slope.  
4/17/2008 1:33:06 AM -- 1641 batch transactions/sec and 4 sessions have 2808 IOPS.  
4/17/2008 1:33:06 AM -- 4 sessions have actual 2808 IOPS (target IOPS: 2500)  
4/17/2008 1:33:06 AM -- Volume U: has 0.0149 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Volume V: has 0.0251 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Volume W: has 0.0332 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Volume X: has 0.0162 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Volume Y: has 0.0326 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Volume Z: has 0.0242 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:33:06 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:33:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:33:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:33:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:33:06 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:33:36 AM -- Volume U: has 0.00013 for read latency slope.  
4/17/2008 1:33:36 AM -- Volume V: has 0.00003 for read latency slope.  
4/17/2008 1:33:36 AM -- Volume W: has 0.00005 for read latency slope.  
4/17/2008 1:33:36 AM -- Volume X: has 0.00004 for read latency slope.  
4/17/2008 1:33:36 AM -- Volume Y: has 0.00009 for read latency slope.  
4/17/2008 1:33:36 AM -- Volume Z: has 0.00004 for read latency slope.  
4/17/2008 1:35:36 AM -- 956 batch transactions/sec and 2 sessions have 1563 IOPS.  
4/17/2008 1:35:36 AM -- 2 sessions have actual 1563 IOPS (target IOPS: 2500)  
4/17/2008 1:35:36 AM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume V: has 0.0096 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume W: has 0.0100 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume X: has 0.0098 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume Y: has 0.0112 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume Z: has 0.0095 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:35:36 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:35:36 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:35:36 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:35:36 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:36:06 AM -- Volume U: has 0.00016 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume V: has 0.00004 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume W: has 0.00019 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume X: has 0.00023 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume Y: has 0.00014 for read latency slope.  
4/17/2008 1:36:06 AM -- Volume Z: has 0.00016 for read latency slope.

4/17/2008 1:38:06 AM -- 1701 batch transactions/sec and 4 sessions have 2810 IOPS.  
4/17/2008 1:38:06 AM -- 4 sessions have actual 2810 IOPS (target IOPS: 2500)  
4/17/2008 1:38:06 AM -- Volume U: has 0.0193 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume V: has 0.0170 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume W: has 0.0194 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume X: has 0.0190 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume Y: has 0.0264 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume Z: has 0.0271 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:38:06 AM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/17/2008 1:38:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 1:38:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:38:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:38:06 AM -- Operation mix: Sessions 3, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:38:36 AM -- Volume U: has 0.00022 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume V: has 0.00018 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume W: has 0.00036 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume X: has 0.00065 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume Y: has 0.00037 for read latency slope.  
4/17/2008 1:38:36 AM -- Volume Z: has 0.00080 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume U: has 0.00001 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume V: has 0.00010 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume W: has 0.00003 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume X: has 0.00012 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume Y: has 0.00002 for read latency slope.  
4/17/2008 1:39:06 AM -- Volume Z: has 0.00003 for read latency slope.  
4/17/2008 1:41:06 AM -- 1350 batch transactions/sec and 3 sessions have 2235 IOPS.  
4/17/2008 1:41:06 AM -- 3 sessions have actual 2235 IOPS (target IOPS: 2500)  
4/17/2008 1:41:06 AM -- Volume U: has 0.0124 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume V: has 0.0136 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume W: has 0.0116 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume X: has 0.0120 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume Y: has 0.0136 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume Z: has 0.0123 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:41:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:41:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:41:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:41:06 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:41:36 AM -- Volume U: has 0.00177 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume V: has 0.00153 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume W: has 0.00176 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume X: has 0.00125 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume Y: has 0.00089 for read latency slope.  
4/17/2008 1:41:36 AM -- Volume Z: has 0.00089 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume U: has 0.00018 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume V: has 0.00009 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume W: has 0.00110 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume X: has 0.00020 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume Y: has 0.00004 for read latency slope.  
4/17/2008 1:42:06 AM -- Volume Z: has 0.00033 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume U: has 0.00018 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume V: has 0.00004 for read latency slope.

4/17/2008 1:42:36 AM -- Volume W: has 0.00004 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume X: has 0.00045 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume Y: has 0.00101 for read latency slope.  
4/17/2008 1:42:36 AM -- Volume Z: has 0.00021 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume U: has 0.00006 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume V: has 0.00051 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume W: has 0.00065 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume X: has 0.00007 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume Y: has 0.00030 for read latency slope.  
4/17/2008 1:43:06 AM -- Volume Z: has 0.00025 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume U: has 0.00004 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume V: has 0.00003 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume W: has 0.00012 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume X: has 0.00001 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume Y: has 0.00034 for read latency slope.  
4/17/2008 1:43:36 AM -- Volume Z: has 0.00005 for read latency slope.  
4/17/2008 1:45:36 AM -- 1737 batch transactions/sec and 4 sessions have 2896 IOPS.  
4/17/2008 1:45:36 AM -- 4 sessions have actual 2896 IOPS (target IOPS: 2500)  
4/17/2008 1:45:36 AM -- Volume U: has 0.0188 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume V: has 0.0179 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume W: has 0.0276 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume X: has 0.0218 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume Y: has 0.0234 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume Z: has 0.0174 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:45:36 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:45:36 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume J: has 0.0004 for Avg. Disk sec/Write.  
4/17/2008 1:45:36 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 1:45:36 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:45:36 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:46:06 AM -- Volume U: has 0.00006 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume V: has 0.00010 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume W: has 0.00041 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume X: has 0.00012 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume Y: has 0.00018 for read latency slope.  
4/17/2008 1:46:06 AM -- Volume Z: has 0.00022 for read latency slope.  
4/17/2008 1:48:06 AM -- 914 batch transactions/sec and 2 sessions have 1534 IOPS.  
4/17/2008 1:48:06 AM -- 2 sessions have actual 1534 IOPS (target IOPS: 2500)  
4/17/2008 1:48:06 AM -- Volume U: has 0.0097 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume V: has 0.0099 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume W: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume X: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume Y: has 0.0106 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume Z: has 0.0095 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:48:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:48:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:48:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:48:06 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:48:37 AM -- Volume U: has 0.00008 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume V: has 0.00003 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume W: has 0.00037 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume X: has 0.00018 for read latency slope.

4/17/2008 1:48:37 AM -- Volume Y: has 0.00018 for read latency slope.  
4/17/2008 1:48:37 AM -- Volume Z: has 0.00020 for read latency slope.  
4/17/2008 1:50:37 AM -- 1705 batch transactions/sec and 4 sessions have 2845 IOPS.  
4/17/2008 1:50:37 AM -- 4 sessions have actual 2845 IOPS (target IOPS: 2500)  
4/17/2008 1:50:37 AM -- Volume U: has 0.0156 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume V: has 0.0187 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume W: has 0.0183 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume X: has 0.0165 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume Y: has 0.0204 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume Z: has 0.0192 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:50:37 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:50:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:50:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:50:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:50:37 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:51:07 AM -- Volume U: has 0.00008 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume V: has 0.00023 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume W: has 0.00037 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume X: has 0.00047 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume Y: has 0.00011 for read latency slope.  
4/17/2008 1:51:07 AM -- Volume Z: has 0.00066 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume U: has 0.00011 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume V: has 0.00007 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume W: has 0.00008 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume X: has 0.00011 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume Y: has 0.00004 for read latency slope.  
4/17/2008 1:51:37 AM -- Volume Z: has 0.00013 for read latency slope.  
4/17/2008 1:53:37 AM -- 908 batch transactions/sec and 2 sessions have 1504 IOPS.  
4/17/2008 1:53:37 AM -- 2 sessions have actual 1504 IOPS (target IOPS: 2500)  
4/17/2008 1:53:37 AM -- Volume U: has 0.0098 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume V: has 0.0095 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume W: has 0.0098 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume X: has 0.0101 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume Y: has 0.0106 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume Z: has 0.0097 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:53:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:53:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:53:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:53:37 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:54:07 AM -- Volume U: has 0.00008 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume V: has 0.00020 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume W: has 0.00016 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume X: has 0.00015 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume Y: has 0.00002 for read latency slope.  
4/17/2008 1:54:07 AM -- Volume Z: has 0.00004 for read latency slope.  
4/17/2008 1:56:07 AM -- 1725 batch transactions/sec and 4 sessions have 2789 IOPS.  
4/17/2008 1:56:07 AM -- 4 sessions have actual 2789 IOPS (target IOPS: 2500)  
4/17/2008 1:56:07 AM -- Volume U: has 0.0143 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume V: has 0.0212 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume W: has 0.0189 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume X: has 0.0172 for Avg. Disk sec/Read.

4/17/2008 1:56:07 AM -- Volume Y: has 0.0199 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume Z: has 0.0174 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 1:56:07 AM -- Volume I: has 0.0004 for Avg. Disk sec/Write.  
4/17/2008 1:56:07 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 1:56:07 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 1:56:07 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:56:07 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:56:37 AM -- Volume U: has 0.00132 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume V: has 0.00557 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume W: has 0.00059 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume X: has 0.00105 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume Y: has 0.00112 for read latency slope.  
4/17/2008 1:56:37 AM -- Volume Z: has 0.00051 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume U: has 0.00001 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume V: has 0.00001 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume W: has 0.00009 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume X: has 0.00004 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume Y: has 0.00021 for read latency slope.  
4/17/2008 1:57:07 AM -- Volume Z: has 0.00008 for read latency slope.  
4/17/2008 1:59:07 AM -- 884 batch transactions/sec and 2 sessions have 1495 IOPS.  
4/17/2008 1:59:07 AM -- 2 sessions have actual 1495 IOPS (target IOPS: 2500)  
4/17/2008 1:59:07 AM -- Volume U: has 0.0096 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume V: has 0.0103 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume W: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume X: has 0.0095 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume Y: has 0.0101 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume Z: has 0.0093 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:59:07 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:59:07 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 1:59:07 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 1:59:07 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 1:59:37 AM -- Volume U: has 0.00014 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume V: has 0.00006 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume W: has 0.00026 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume X: has 0.00013 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume Y: has 0.00019 for read latency slope.  
4/17/2008 1:59:37 AM -- Volume Z: has 0.00013 for read latency slope.  
4/17/2008 2:01:37 AM -- 1714 batch transactions/sec and 4 sessions have 2819 IOPS.  
4/17/2008 2:01:37 AM -- 4 sessions have actual 2819 IOPS (target IOPS: 2500)  
4/17/2008 2:01:37 AM -- Volume U: has 0.0154 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume V: has 0.0177 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume W: has 0.0187 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume X: has 0.0163 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume Y: has 0.0203 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume Z: has 0.0179 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Process has average database read latencies higher than 0.020.  
4/17/2008 2:01:37 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/17/2008 2:01:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/17/2008 2:01:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.

4/17/2008 2:01:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:01:37 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 2:02:07 AM -- Volume U: has 0.00030 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume V: has 0.00112 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume W: has 0.00226 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume X: has 0.00143 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume Y: has 0.00172 for read latency slope.  
4/17/2008 2:02:07 AM -- Volume Z: has 0.00150 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume U: has 0.00004 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume V: has 0.00001 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume W: has 0.00003 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume X: has 0.00004 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume Y: has 0.00005 for read latency slope.  
4/17/2008 2:02:37 AM -- Volume Z: has 0.00011 for read latency slope.  
4/17/2008 2:04:37 AM -- 936 batch transactions/sec and 2 sessions have 1536 IOPS.  
4/17/2008 2:04:37 AM -- 2 sessions have actual 1536 IOPS (target IOPS: 2500)  
4/17/2008 2:04:37 AM -- Volume U: has 0.0104 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume V: has 0.0100 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume W: has 0.0101 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume X: has 0.0094 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume Y: has 0.0103 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume Z: has 0.0098 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 2:04:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 2:04:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/17/2008 2:04:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/17/2008 2:04:37 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/17/2008 2:05:07 AM -- Volume U: has 0.00003 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume V: has 0.00009 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume W: has 0.00012 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume X: has 0.00014 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume Y: has 0.00063 for read latency slope.  
4/17/2008 2:05:07 AM -- Volume Z: has 0.00008 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume U: has 0.00021 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume V: has 0.00009 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume W: has 0.00051 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume X: has 0.00083 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume Y: has 0.00041 for read latency slope.  
4/17/2008 2:05:37 AM -- Volume Z: has 0.00030 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume U: has 0.00036 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume V: has 0.00030 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume W: has 0.00035 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume X: has 0.00063 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume Y: has 0.00073 for read latency slope.  
4/17/2008 2:06:07 AM -- Volume Z: has 0.00033 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume U: has 0.00057 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume V: has 0.00005 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume W: has 0.00006 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume X: has 0.00031 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume Y: has 0.00003 for read latency slope.  
4/17/2008 2:06:37 AM -- Volume Z: has 0.00002 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume U: has 0.00016 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume V: has 0.00014 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume W: has 0.00016 for read latency slope.  
4/17/2008 2:07:07 AM -- Volume X: has 0.00133 for read latency slope.

4/17/2008 2:07:07 AM -- Volume Y: has 0.00160 for read latency slope.  
 4/17/2008 2:07:07 AM -- Volume Z: has 0.00062 for read latency slope.  
 4/17/2008 2:07:37 AM -- Volume U: has 0.00009 for read latency slope.  
 4/17/2008 2:07:37 AM -- Volume V: has 0.00030 for read latency slope.  
 4/17/2008 2:07:37 AM -- Volume W: has 0.00016 for read latency slope.  
 4/17/2008 2:07:37 AM -- Volume X: has 0.00008 for read latency slope.  
 4/17/2008 2:07:37 AM -- Volume Y: has 0.00060 for read latency slope.  
 4/17/2008 2:07:37 AM -- Volume Z: has 0.00013 for read latency slope.  
 4/17/2008 2:08:07 AM -- Volume U: has 0.00005 for read latency slope.  
 4/17/2008 2:08:07 AM -- Volume V: has 0.00007 for read latency slope.  
 4/17/2008 2:08:07 AM -- Volume W: has 0.00038 for read latency slope.  
 4/17/2008 2:08:07 AM -- Volume X: has 0.00013 for read latency slope.  
 4/17/2008 2:08:07 AM -- Volume Y: has 0.00035 for read latency slope.  
 4/17/2008 2:08:07 AM -- Volume Z: has 0.00007 for read latency slope.  
 4/17/2008 2:10:07 AM -- 1712 batch transactions/sec and 4 sessions have 2851 IOPS.  
 4/17/2008 2:10:07 AM -- 4 sessions have actual 2851 IOPS (target IOPS: 2500)  
 4/17/2008 2:10:07 AM -- Volume U: has 0.0158 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume V: has 0.0180 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume W: has 0.0177 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume X: has 0.0176 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume Y: has 0.0177 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume Z: has 0.0168 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
 4/17/2008 2:10:07 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
 4/17/2008 2:10:07 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
 4/17/2008 2:10:07 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
 4/17/2008 2:10:07 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
 4/17/2008 2:10:08 AM -- Performance logging ends.  
 4/17/2008 2:10:08 AM -- Automatic tuning succeeded.  
 4/17/2008 2:10:10 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
 4/17/2008 2:10:10 AM -- Performance logging begins (interval: 15000 ms).  
 4/17/2008 2:10:10 AM -- Attaining prerequisites:  
 4/17/2008 2:10:10 AM -- \MSExchange Database(JetstressWin)\Database Cache Size, Last: 9654862000.0 (lower bound: 8697308000.0, upper bound: none)  
 4/18/2008 2:10:12 AM -- Performance logging ends.  
 4/18/2008 2:10:12 AM -- JetInterop batch transaction stats: 230619, 231388, 231948, 231489, 231889, 231928, 230975, 231239, 231705, 231418, 231443, 231820, 232176, 231498, 230860, 230711, 230989, 230515, 231172, 230870, 230989, 231057, 231886, 231212, 231347, 230980, 231263, 230926, 230789, 230979, 231547, 230138, 231002, 231296, 231514, and 230958.  
 4/18/2008 2:10:13 AM -- Dispatching transactions ends.  
 4/18/2008 2:10:13 AM -- Shutting down databases ...  
 4/18/2008 2:11:21 AM -- Instance720.1 (complete), Instance720.2 (complete), Instance720.3 (complete), Instance720.4 (complete), Instance720.5 (complete), Instance720.6 (complete), Instance720.7 (complete), Instance720.8 (complete), Instance720.9 (complete), Instance720.10 (complete), Instance720.11 (complete), Instance720.12 (complete), Instance720.13 (complete), Instance720.14 (complete), Instance720.15 (complete), Instance720.16 (complete), Instance720.17 (complete), Instance720.18 (complete), Instance720.19 (complete), Instance720.20 (complete), Instance720.21 (complete), Instance720.22 (complete), Instance720.23 (complete), Instance720.24 (complete), Instance720.25 (complete), Instance720.26 (complete), Instance720.27 (complete), Instance720.28 (complete), Instance720.29 (complete), Instance720.30 (complete), Instance720.31 (complete), Instance720.32 (complete), Instance720.33 (complete), Instance720.34 (complete), Instance720.35 (complete), and Instance720.36 (complete)  
 4/18/2008 2:11:21 AM -- Performance logging begins (interval: 30000 ms).  
 4/18/2008 2:11:21 AM -- Verifying database checksums ...

4/18/2008 3:22:22 AM -- U: (100% processed), V: (100% processed), W: (100% processed),  
X: (100% processed), Y: (100% processed), and Z: (100% processed)  
4/18/2008 3:22:23 AM -- Performance logging ends.  
4/18/2008 3:22:23 AM -- [C:\Program Files\Exchange  
Jetstress\MLK\Stress\DBChecksum\\_2008\\_4\\_18\\_2\\_11\\_21.blg](#) has 142 samples.

## Appendix D: Soft Recovery Testing

### ***SoftRecovery Performance Test Result Report***

Soft-Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance3696.1	556	593.390625
Instance3696.2	562	592.796875
Instance3696.3	567	569
Instance3696.4	553	592.46875
Instance3696.5	564	571.75
Instance3696.6	559	597.140625
Instance3696.7	561	538.25
Instance3696.8	554	584.828125
Instance3696.9	551	561.5
Instance3696.10	569	592.21875
Instance3696.11	574	580.828125
Instance3696.12	551	586.078125
Instance3696.13	562	592.796875
Instance3696.14	554	581.078125
Instance3696.15	557	586.828125
Instance3696.16	579	598.640625
Instance3696.17	546	601.390625
Instance3696.18	564	580.578125
Instance3696.19	565	556
Instance3696.20	581	592.46875
Instance3696.21	560	561.5
Instance3696.22	557	586.078125
Instance3696.23	555	596.890625
Instance3696.24	570	595.640625
Instance3696.25	560	578.25
Instance3696.26	553	579.25
Instance3696.27	554	592.46875
Instance3696.28	569	602.390625
Instance3696.29	560	608.640625
Instance3696.30	541	602.390625
Instance3696.31	570	571.25
Instance3696.32	559	543
Instance3696.33	557	570.25
Instance3696.34	549	562.5
Instance3696.35	552	594.890625
Instance3696.36	559	584.078125

### Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (U:)	0.085	0.003	1548.111	51.424	(n/a)
Database (V:)	0.077	0.002	1540.818	51.459	(n/a)
Database (W:)	0.078	0.003	1565.262	51.513	(n/a)
Database (X:)	0.069	0.002	1584.469	51.889	(n/a)
Database (Y:)	0.089	0.003	1565.385	50.956	(n/a)
Database (Z:)	0.070	0.002	1558.526	51.424	(n/a)
Log (I:)	0.005	0.000	365.959	17.593	5172.547
Log (J:)	0.006	0.000	367.925	17.307	5135.396
Log (K:)	0.006	0.000	364.146	17.565	5032.796

### Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	20.120	2.246	68.036
Available MBytes	22931.563	21324.000	30544.000
Free System Page Table Entries	16756509.000	16756509.000	16756509.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	68340186.702	67936256.000	69468160.000
Pool Paged Bytes	55699198.305	53792768.000	56201216.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log4/23/2008 9:45:40 AM -- Jetstress testing begins ...

4/23/2008 9:45:40 AM -- Prepare testing begins ...

4/23/2008 9:46:16 AM -- Attaching databases ...

4/23/2008 9:46:16 AM -- Prepare testing ends.

4/23/2008 9:46:16 AM -- Dispatching transactions begins ...

4/23/2008 9:46:16 AM -- Database cache settings: (minimum: 1.1 GB, maximum: 9.0 GB)

4/23/2008 9:46:16 AM -- Database flush thresholds: (start: 92.2 MB, stop: 184.3 MB)

4/23/2008 9:46:53 AM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

4/23/2008 9:46:53 AM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

4/23/2008 9:46:53 AM -- Attaining prerequisites:

4/23/2008 9:56:32 AM -- \MSExchange Database(JetstressWin)\Database Cache Size, Last: 8698339000.0 (lower bound: 8697308000.0, upper bound: none)

4/23/2008 9:56:34 AM -- Performance logging begins (interval: 5000 ms).

4/23/2008 9:56:34 AM -- Automatic tuning begins ...

4/23/2008 9:57:05 AM -- Volume U: has 0.00047 for read latency slope.

4/23/2008 9:57:05 AM -- Volume V: has 0.00017 for read latency slope.

4/23/2008 9:57:05 AM -- Volume W: has 0.00026 for read latency slope.

4/23/2008 9:57:05 AM -- Volume X: has 0.00023 for read latency slope.

4/23/2008 9:57:05 AM -- Volume Y: has 0.00005 for read latency slope.  
4/23/2008 9:57:05 AM -- Volume Z: has 0.00029 for read latency slope.  
4/23/2008 9:59:06 AM -- 2656 batch transactions/sec and 8 sessions have 3708 IOPS.  
4/23/2008 9:59:06 AM -- 8 sessions have actual 3708 IOPS (target IOPS: 2500)  
4/23/2008 9:59:06 AM -- Volume U: has 0.0210 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Volume V: has 0.0199 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Volume W: has 0.0307 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Volume X: has 0.0282 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Volume Y: has 0.0315 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Volume Z: has 0.0255 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 9:59:06 AM -- Volume I: has 0.0003 for Avg. Disk sec/Write.  
4/23/2008 9:59:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Volume J: has 0.0026 for Avg. Disk sec/Write.  
4/23/2008 9:59:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Volume K: has 0.0027 for Avg. Disk sec/Write.  
4/23/2008 9:59:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 9:59:06 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 9:59:36 AM -- Volume U: has 0.00007 for read latency slope.  
4/23/2008 9:59:36 AM -- Volume V: has 0.00120 for read latency slope.  
4/23/2008 9:59:36 AM -- Volume W: has 0.00057 for read latency slope.  
4/23/2008 9:59:36 AM -- Volume X: has 0.00305 for read latency slope.  
4/23/2008 9:59:36 AM -- Volume Y: has 0.00128 for read latency slope.  
4/23/2008 9:59:36 AM -- Volume Z: has 0.00005 for read latency slope.  
4/23/2008 10:00:06 AM -- Volume U: has 0.00055 for read latency slope.  
4/23/2008 10:00:06 AM -- Volume V: has 0.00097 for read latency slope.  
4/23/2008 10:00:06 AM -- Volume W: has 0.00203 for read latency slope.  
4/23/2008 10:00:06 AM -- Volume X: has 0.00202 for read latency slope.  
4/23/2008 10:00:06 AM -- Volume Y: has 0.00295 for read latency slope.  
4/23/2008 10:00:06 AM -- Volume Z: has 0.00198 for read latency slope.  
4/23/2008 10:00:36 AM -- Volume U: has 0.00342 for read latency slope.  
4/23/2008 10:00:36 AM -- Volume V: has 0.00088 for read latency slope.  
4/23/2008 10:00:36 AM -- Volume W: has 0.00790 for read latency slope.  
4/23/2008 10:00:36 AM -- Volume X: has 0.00201 for read latency slope.  
4/23/2008 10:00:36 AM -- Volume Y: has 0.00323 for read latency slope.  
4/23/2008 10:00:36 AM -- Volume Z: has 0.00398 for read latency slope.  
4/23/2008 10:01:06 AM -- Volume U: has 0.00181 for read latency slope.  
4/23/2008 10:01:06 AM -- Volume V: has 0.00079 for read latency slope.  
4/23/2008 10:01:06 AM -- Volume W: has 0.00029 for read latency slope.  
4/23/2008 10:01:06 AM -- Volume X: has 0.00049 for read latency slope.  
4/23/2008 10:01:06 AM -- Volume Y: has 0.00411 for read latency slope.  
4/23/2008 10:01:06 AM -- Volume Z: has 0.00123 for read latency slope.  
4/23/2008 10:01:36 AM -- Volume U: has 0.00353 for read latency slope.  
4/23/2008 10:01:36 AM -- Volume V: has 0.00245 for read latency slope.  
4/23/2008 10:01:36 AM -- Volume W: has 0.00256 for read latency slope.  
4/23/2008 10:01:36 AM -- Volume X: has 0.00214 for read latency slope.  
4/23/2008 10:01:36 AM -- Volume Y: has 0.00236 for read latency slope.  
4/23/2008 10:01:36 AM -- Volume Z: has 0.00176 for read latency slope.  
4/23/2008 10:02:06 AM -- Volume U: has 0.00218 for read latency slope.  
4/23/2008 10:02:06 AM -- Volume V: has 0.00035 for read latency slope.  
4/23/2008 10:02:06 AM -- Volume W: has 0.00064 for read latency slope.  
4/23/2008 10:02:06 AM -- Volume X: has 0.00023 for read latency slope.  
4/23/2008 10:02:06 AM -- Volume Y: has 0.00035 for read latency slope.  
4/23/2008 10:02:06 AM -- Volume Z: has 0.00045 for read latency slope.  
4/23/2008 10:02:36 AM -- Volume U: has 0.00087 for read latency slope.  
4/23/2008 10:02:36 AM -- Volume V: has 0.00181 for read latency slope.  
4/23/2008 10:02:36 AM -- Volume W: has 0.00285 for read latency slope.  
4/23/2008 10:02:36 AM -- Volume X: has 0.00210 for read latency slope.

4/23/2008 10:02:36 AM -- Volume Y: has 0.00244 for read latency slope.  
4/23/2008 10:02:36 AM -- Volume Z: has 0.00077 for read latency slope.  
4/23/2008 10:03:06 AM -- Volume U: has 0.00034 for read latency slope.  
4/23/2008 10:03:06 AM -- Volume V: has 0.00017 for read latency slope.  
4/23/2008 10:03:06 AM -- Volume W: has 0.00022 for read latency slope.  
4/23/2008 10:03:06 AM -- Volume X: has 0.00002 for read latency slope.  
4/23/2008 10:03:06 AM -- Volume Y: has 0.00020 for read latency slope.  
4/23/2008 10:03:06 AM -- Volume Z: has 0.00044 for read latency slope.  
4/23/2008 10:05:06 AM -- 944 batch transactions/sec and 4 sessions have 2948 IOPS.  
4/23/2008 10:05:06 AM -- 4 sessions have actual 2948 IOPS (target IOPS: 2500)  
4/23/2008 10:05:06 AM -- Volume U: has 0.0397 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Volume V: has 0.0423 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Volume W: has 0.0703 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Volume X: has 0.0664 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Volume Y: has 0.1253 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Volume Z: has 0.0323 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 10:05:06 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:05:06 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Volume J: has 0.0033 for Avg. Disk sec/Write.  
4/23/2008 10:05:06 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Volume K: has 0.0037 for Avg. Disk sec/Write.  
4/23/2008 10:05:06 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:05:06 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:05:36 AM -- Volume U: has 0.00011 for read latency slope.  
4/23/2008 10:05:36 AM -- Volume V: has 0.00026 for read latency slope.  
4/23/2008 10:05:36 AM -- Volume W: has 0.00027 for read latency slope.  
4/23/2008 10:05:36 AM -- Volume X: has 0.00009 for read latency slope.  
4/23/2008 10:05:36 AM -- Volume Y: has 0.00048 for read latency slope.  
4/23/2008 10:05:36 AM -- Volume Z: has 0.00004 for read latency slope.  
4/23/2008 10:07:36 AM -- 965 batch transactions/sec and 2 sessions have 1513 IOPS.  
4/23/2008 10:07:36 AM -- 2 sessions have actual 1513 IOPS (target IOPS: 2500)  
4/23/2008 10:07:36 AM -- Volume U: has 0.0099 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume V: has 0.0100 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume W: has 0.0095 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume X: has 0.0097 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume Y: has 0.0105 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume Z: has 0.0091 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:07:36 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:07:36 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:07:36 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:07:36 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:08:06 AM -- Volume U: has 0.00007 for read latency slope.  
4/23/2008 10:08:06 AM -- Volume V: has 0.00030 for read latency slope.  
4/23/2008 10:08:06 AM -- Volume W: has 0.00053 for read latency slope.  
4/23/2008 10:08:06 AM -- Volume X: has 0.00000 for read latency slope.  
4/23/2008 10:08:06 AM -- Volume Y: has 0.00103 for read latency slope.  
4/23/2008 10:08:06 AM -- Volume Z: has 0.00035 for read latency slope.  
4/23/2008 10:08:36 AM -- Volume U: has 0.00005 for read latency slope.  
4/23/2008 10:08:36 AM -- Volume V: has 0.00031 for read latency slope.  
4/23/2008 10:08:36 AM -- Volume W: has 0.00002 for read latency slope.  
4/23/2008 10:08:36 AM -- Volume X: has 0.00018 for read latency slope.  
4/23/2008 10:08:36 AM -- Volume Y: has 0.00048 for read latency slope.  
4/23/2008 10:08:36 AM -- Volume Z: has 0.00022 for read latency slope.

4/23/2008 10:10:36 AM -- 1789 batch transactions/sec and 4 sessions have 2784 IOPS.  
4/23/2008 10:10:36 AM -- 4 sessions have actual 2784 IOPS (target IOPS: 2500)  
4/23/2008 10:10:36 AM -- Volume U: has 0.0157 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Volume V: has 0.0182 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Volume W: has 0.0195 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Volume X: has 0.0159 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Volume Y: has 0.0236 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Volume Z: has 0.0160 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 10:10:36 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:10:36 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/23/2008 10:10:36 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:10:36 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:10:36 AM -- Operation mix: Sessions 3, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:11:06 AM -- Volume U: has 0.00078 for read latency slope.  
4/23/2008 10:11:06 AM -- Volume V: has 0.00144 for read latency slope.  
4/23/2008 10:11:06 AM -- Volume W: has 0.00615 for read latency slope.  
4/23/2008 10:11:06 AM -- Volume X: has 0.00039 for read latency slope.  
4/23/2008 10:11:06 AM -- Volume Y: has 0.00180 for read latency slope.  
4/23/2008 10:11:06 AM -- Volume Z: has 0.00001 for read latency slope.  
4/23/2008 10:11:36 AM -- Volume U: has 0.00007 for read latency slope.  
4/23/2008 10:11:36 AM -- Volume V: has 0.00007 for read latency slope.  
4/23/2008 10:11:36 AM -- Volume W: has 0.00003 for read latency slope.  
4/23/2008 10:11:36 AM -- Volume X: has 0.00002 for read latency slope.  
4/23/2008 10:11:36 AM -- Volume Y: has 0.00018 for read latency slope.  
4/23/2008 10:11:36 AM -- Volume Z: has 0.00004 for read latency slope.  
4/23/2008 10:13:37 AM -- 1322 batch transactions/sec and 3 sessions have 2158 IOPS.  
4/23/2008 10:13:37 AM -- 3 sessions have actual 2158 IOPS (target IOPS: 2500)  
4/23/2008 10:13:37 AM -- Volume U: has 0.0132 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume V: has 0.0123 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume W: has 0.0131 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume X: has 0.0118 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume Y: has 0.0129 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume Z: has 0.0158 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:13:37 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:13:37 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:13:37 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:13:37 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:14:14 AM -- Volume U: has 0.00019 for read latency slope.  
4/23/2008 10:14:14 AM -- Volume V: has 0.00014 for read latency slope.  
4/23/2008 10:14:14 AM -- Volume W: has 0.00026 for read latency slope.  
4/23/2008 10:14:14 AM -- Volume X: has 0.00070 for read latency slope.  
4/23/2008 10:14:14 AM -- Volume Y: has 0.00055 for read latency slope.  
4/23/2008 10:14:14 AM -- Volume Z: has 0.00020 for read latency slope.  
4/23/2008 10:14:58 AM -- Volume U: has 0.00005 for read latency slope.  
4/23/2008 10:14:58 AM -- Volume V: has 0.00001 for read latency slope.  
4/23/2008 10:14:58 AM -- Volume W: has 0.00006 for read latency slope.  
4/23/2008 10:14:58 AM -- Volume X: has 0.00029 for read latency slope.  
4/23/2008 10:14:58 AM -- Volume Y: has 0.00008 for read latency slope.  
4/23/2008 10:14:58 AM -- Volume Z: has 0.00074 for read latency slope.  
4/23/2008 10:15:39 AM -- Volume U: has 0.00092 for read latency slope.  
4/23/2008 10:15:39 AM -- Volume V: has 0.00165 for read latency slope.

4/23/2008 10:15:39 AM -- Volume W: has 0.00110 for read latency slope.  
4/23/2008 10:15:39 AM -- Volume X: has 0.00071 for read latency slope.  
4/23/2008 10:15:39 AM -- Volume Y: has 0.00218 for read latency slope.  
4/23/2008 10:15:39 AM -- Volume Z: has 0.00026 for read latency slope.  
4/23/2008 10:16:17 AM -- Volume U: has 0.00042 for read latency slope.  
4/23/2008 10:16:17 AM -- Volume V: has 0.00131 for read latency slope.  
4/23/2008 10:16:17 AM -- Volume W: has 0.00003 for read latency slope.  
4/23/2008 10:16:17 AM -- Volume X: has 0.00003 for read latency slope.  
4/23/2008 10:16:17 AM -- Volume Y: has 0.00152 for read latency slope.  
4/23/2008 10:16:17 AM -- Volume Z: has 0.00030 for read latency slope.  
4/23/2008 10:16:51 AM -- Volume U: has 0.00016 for read latency slope.  
4/23/2008 10:16:51 AM -- Volume V: has 0.00002 for read latency slope.  
4/23/2008 10:16:51 AM -- Volume W: has 0.00009 for read latency slope.  
4/23/2008 10:16:51 AM -- Volume X: has 0.00024 for read latency slope.  
4/23/2008 10:16:51 AM -- Volume Y: has 0.00012 for read latency slope.  
4/23/2008 10:16:51 AM -- Volume Z: has 0.00007 for read latency slope.  
4/23/2008 10:18:56 AM -- 1716 batch transactions/sec and 4 sessions have 2856 IOPS.  
4/23/2008 10:18:56 AM -- 4 sessions have actual 2856 IOPS (target IOPS: 2500)  
4/23/2008 10:18:56 AM -- Volume U: has 0.0162 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Volume V: has 0.0197 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Volume W: has 0.0205 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Volume X: has 0.0195 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Volume Y: has 0.0306 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Volume Z: has 0.0232 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 10:18:56 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:18:56 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:18:56 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:18:56 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:18:56 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:19:26 AM -- Volume U: has 0.00474 for read latency slope.  
4/23/2008 10:19:26 AM -- Volume V: has 0.00338 for read latency slope.  
4/23/2008 10:19:26 AM -- Volume W: has 0.00291 for read latency slope.  
4/23/2008 10:19:26 AM -- Volume X: has 0.00178 for read latency slope.  
4/23/2008 10:19:26 AM -- Volume Y: has 0.00420 for read latency slope.  
4/23/2008 10:19:26 AM -- Volume Z: has 0.00146 for read latency slope.  
4/23/2008 10:19:56 AM -- Volume U: has 0.00006 for read latency slope.  
4/23/2008 10:19:56 AM -- Volume V: has 0.00001 for read latency slope.  
4/23/2008 10:19:56 AM -- Volume W: has 0.00005 for read latency slope.  
4/23/2008 10:19:56 AM -- Volume X: has 0.00007 for read latency slope.  
4/23/2008 10:19:56 AM -- Volume Y: has 0.00005 for read latency slope.  
4/23/2008 10:19:56 AM -- Volume Z: has 0.00008 for read latency slope.  
4/23/2008 10:21:57 AM -- 920 batch transactions/sec and 2 sessions have 1496 IOPS.  
4/23/2008 10:21:57 AM -- 2 sessions have actual 1496 IOPS (target IOPS: 2500)  
4/23/2008 10:21:57 AM -- Volume U: has 0.0106 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume V: has 0.0099 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume W: has 0.0097 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume X: has 0.0096 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume Y: has 0.0106 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume Z: has 0.0094 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:21:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:21:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:21:57 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:21:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.

4/23/2008 10:21:57 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.

4/23/2008 10:22:27 AM -- Volume U: has 0.00013 for read latency slope.  
4/23/2008 10:22:27 AM -- Volume V: has 0.00002 for read latency slope.  
4/23/2008 10:22:27 AM -- Volume W: has 0.00017 for read latency slope.  
4/23/2008 10:22:27 AM -- Volume X: has 0.00028 for read latency slope.  
4/23/2008 10:22:27 AM -- Volume Y: has 0.00058 for read latency slope.  
4/23/2008 10:22:27 AM -- Volume Z: has 0.00012 for read latency slope.  
4/23/2008 10:22:57 AM -- Volume U: has 0.00005 for read latency slope.  
4/23/2008 10:22:57 AM -- Volume V: has 0.00015 for read latency slope.  
4/23/2008 10:22:57 AM -- Volume W: has 0.00010 for read latency slope.  
4/23/2008 10:22:57 AM -- Volume X: has 0.00011 for read latency slope.  
4/23/2008 10:22:57 AM -- Volume Y: has 0.00141 for read latency slope.  
4/23/2008 10:22:57 AM -- Volume Z: has 0.00036 for read latency slope.  
4/23/2008 10:23:27 AM -- Volume U: has 0.00389 for read latency slope.  
4/23/2008 10:23:27 AM -- Volume V: has 0.00348 for read latency slope.  
4/23/2008 10:23:27 AM -- Volume W: has 0.00133 for read latency slope.  
4/23/2008 10:23:27 AM -- Volume X: has 0.00005 for read latency slope.  
4/23/2008 10:23:27 AM -- Volume Y: has 0.00218 for read latency slope.  
4/23/2008 10:23:27 AM -- Volume Z: has 0.00108 for read latency slope.  
4/23/2008 10:23:57 AM -- Volume U: has 0.00014 for read latency slope.  
4/23/2008 10:23:57 AM -- Volume V: has 0.00002 for read latency slope.  
4/23/2008 10:23:57 AM -- Volume W: has 0.00003 for read latency slope.  
4/23/2008 10:23:57 AM -- Volume X: has 0.00038 for read latency slope.  
4/23/2008 10:23:57 AM -- Volume Y: has 0.00039 for read latency slope.  
4/23/2008 10:23:57 AM -- Volume Z: has 0.00032 for read latency slope.  
4/23/2008 10:25:57 AM -- 1735 batch transactions/sec and 4 sessions have 2687 IOPS.  
4/23/2008 10:25:57 AM -- 4 sessions have actual 2687 IOPS (target IOPS: 2500)  
4/23/2008 10:25:57 AM -- Volume U: has 0.0187 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Volume V: has 0.0196 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Volume W: has 0.0214 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Volume X: has 0.0173 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Volume Y: has 0.0161 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Volume Z: has 0.0129 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 10:25:57 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:25:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Volume J: has 0.0003 for Avg. Disk sec/Write.  
4/23/2008 10:25:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:25:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:25:57 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.

4/23/2008 10:26:27 AM -- Volume U: has 0.00065 for read latency slope.  
4/23/2008 10:26:27 AM -- Volume V: has 0.00080 for read latency slope.  
4/23/2008 10:26:27 AM -- Volume W: has 0.00196 for read latency slope.  
4/23/2008 10:26:27 AM -- Volume X: has 0.00127 for read latency slope.  
4/23/2008 10:26:27 AM -- Volume Y: has 0.00355 for read latency slope.  
4/23/2008 10:26:27 AM -- Volume Z: has 0.00052 for read latency slope.  
4/23/2008 10:26:57 AM -- Volume U: has 0.00012 for read latency slope.  
4/23/2008 10:26:57 AM -- Volume V: has 0.00004 for read latency slope.  
4/23/2008 10:26:57 AM -- Volume W: has 0.00018 for read latency slope.  
4/23/2008 10:26:57 AM -- Volume X: has 0.00004 for read latency slope.  
4/23/2008 10:26:57 AM -- Volume Y: has 0.00004 for read latency slope.  
4/23/2008 10:26:57 AM -- Volume Z: has 0.00006 for read latency slope.  
4/23/2008 10:28:57 AM -- 897 batch transactions/sec and 2 sessions have 1506 IOPS.  
4/23/2008 10:28:57 AM -- 2 sessions have actual 1506 IOPS (target IOPS: 2500)  
4/23/2008 10:28:57 AM -- Volume U: has 0.0100 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Volume V: has 0.0098 for Avg. Disk sec/Read.

4/23/2008 10:28:57 AM -- Volume W: has 0.0122 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Volume X: has 0.0095 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Volume Y: has 0.0107 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Volume Z: has 0.0096 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:28:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:28:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:28:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:28:57 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:29:27 AM -- Volume U: has 0.00020 for read latency slope.  
4/23/2008 10:29:27 AM -- Volume V: has 0.00001 for read latency slope.  
4/23/2008 10:29:27 AM -- Volume W: has 0.00089 for read latency slope.  
4/23/2008 10:29:27 AM -- Volume X: has 0.00008 for read latency slope.  
4/23/2008 10:29:27 AM -- Volume Y: has 0.00080 for read latency slope.  
4/23/2008 10:29:27 AM -- Volume Z: has 0.00024 for read latency slope.  
4/23/2008 10:29:57 AM -- Volume U: has 0.00021 for read latency slope.  
4/23/2008 10:29:57 AM -- Volume V: has 0.00037 for read latency slope.  
4/23/2008 10:29:57 AM -- Volume W: has 0.00003 for read latency slope.  
4/23/2008 10:29:57 AM -- Volume X: has 0.00010 for read latency slope.  
4/23/2008 10:29:57 AM -- Volume Y: has 0.00020 for read latency slope.  
4/23/2008 10:29:57 AM -- Volume Z: has 0.00047 for read latency slope.  
4/23/2008 10:31:57 AM -- 1604 batch transactions/sec and 4 sessions have 2704 IOPS.  
4/23/2008 10:31:57 AM -- 4 sessions have actual 2704 IOPS (target IOPS: 2500)  
4/23/2008 10:31:57 AM -- Volume U: has 0.0161 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Volume V: has 0.0197 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Volume W: has 0.0167 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Volume X: has 0.0150 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Volume Y: has 0.0271 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Volume Z: has 0.0174 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 10:31:57 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:31:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:31:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:31:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:31:57 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:32:27 AM -- Volume U: has 0.00004 for read latency slope.  
4/23/2008 10:32:27 AM -- Volume V: has 0.00019 for read latency slope.  
4/23/2008 10:32:27 AM -- Volume W: has 0.00014 for read latency slope.  
4/23/2008 10:32:27 AM -- Volume X: has 0.00054 for read latency slope.  
4/23/2008 10:32:27 AM -- Volume Y: has 0.00002 for read latency slope.  
4/23/2008 10:32:27 AM -- Volume Z: has 0.00019 for read latency slope.  
4/23/2008 10:32:57 AM -- Volume U: has 0.00002 for read latency slope.  
4/23/2008 10:32:57 AM -- Volume V: has 0.00003 for read latency slope.  
4/23/2008 10:32:57 AM -- Volume W: has 0.00001 for read latency slope.  
4/23/2008 10:32:57 AM -- Volume X: has 0.00001 for read latency slope.  
4/23/2008 10:32:57 AM -- Volume Y: has 0.00025 for read latency slope.  
4/23/2008 10:32:57 AM -- Volume Z: has 0.00001 for read latency slope.  
4/23/2008 10:34:57 AM -- 940 batch transactions/sec and 2 sessions have 1571 IOPS.  
4/23/2008 10:34:57 AM -- 2 sessions have actual 1571 IOPS (target IOPS: 2500)  
4/23/2008 10:34:57 AM -- Volume U: has 0.0105 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Volume V: has 0.0099 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Volume W: has 0.0115 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Volume X: has 0.0097 for Avg. Disk sec/Read.

4/23/2008 10:34:57 AM -- Volume Y: has 0.0108 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Volume Z: has 0.0107 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:34:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:34:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:34:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:34:57 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:35:27 AM -- Volume U: has 0.00007 for read latency slope.  
4/23/2008 10:35:27 AM -- Volume V: has 0.00045 for read latency slope.  
4/23/2008 10:35:27 AM -- Volume W: has 0.00014 for read latency slope.  
4/23/2008 10:35:27 AM -- Volume X: has 0.00004 for read latency slope.  
4/23/2008 10:35:27 AM -- Volume Y: has 0.00015 for read latency slope.  
4/23/2008 10:35:27 AM -- Volume Z: has 0.00025 for read latency slope.  
4/23/2008 10:37:27 AM -- 1680 batch transactions/sec and 4 sessions have 2776 IOPS.  
4/23/2008 10:37:27 AM -- 4 sessions have actual 2776 IOPS (target IOPS: 2500)  
4/23/2008 10:37:27 AM -- Volume U: has 0.0172 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Volume V: has 0.0202 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Volume W: has 0.0171 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Volume X: has 0.0170 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Volume Y: has 0.0231 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Volume Z: has 0.0169 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 10:37:27 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:37:27 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:37:27 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/23/2008 10:37:27 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:37:27 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:37:57 AM -- Volume U: has 0.00030 for read latency slope.  
4/23/2008 10:37:57 AM -- Volume V: has 0.00006 for read latency slope.  
4/23/2008 10:37:57 AM -- Volume W: has 0.00002 for read latency slope.  
4/23/2008 10:37:57 AM -- Volume X: has 0.00001 for read latency slope.  
4/23/2008 10:37:57 AM -- Volume Y: has 0.00003 for read latency slope.  
4/23/2008 10:37:57 AM -- Volume Z: has 0.00019 for read latency slope.  
4/23/2008 10:39:57 AM -- 883 batch transactions/sec and 2 sessions have 1491 IOPS.  
4/23/2008 10:39:57 AM -- 2 sessions have actual 1491 IOPS (target IOPS: 2500)  
4/23/2008 10:39:57 AM -- Volume U: has 0.0103 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume V: has 0.0104 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume W: has 0.0101 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume X: has 0.0106 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume Y: has 0.0110 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume Z: has 0.0091 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:39:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:39:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:39:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:39:57 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:40:27 AM -- Volume U: has 0.00065 for read latency slope.  
4/23/2008 10:40:27 AM -- Volume V: has 0.00095 for read latency slope.  
4/23/2008 10:40:27 AM -- Volume W: has 0.00068 for read latency slope.  
4/23/2008 10:40:27 AM -- Volume X: has 0.00076 for read latency slope.

4/23/2008 10:40:27 AM -- Volume Y: has 0.00400 for read latency slope.  
4/23/2008 10:40:27 AM -- Volume Z: has 0.00075 for read latency slope.  
4/23/2008 10:40:57 AM -- Volume U: has 0.00008 for read latency slope.  
4/23/2008 10:40:57 AM -- Volume V: has 0.00018 for read latency slope.  
4/23/2008 10:40:57 AM -- Volume W: has 0.00013 for read latency slope.  
4/23/2008 10:40:57 AM -- Volume X: has 0.00008 for read latency slope.  
4/23/2008 10:40:57 AM -- Volume Y: has 0.00006 for read latency slope.  
4/23/2008 10:40:57 AM -- Volume Z: has 0.00000 for read latency slope.  
4/23/2008 10:42:57 AM -- 1639 batch transactions/sec and 4 sessions have 2805 IOPS.  
4/23/2008 10:42:57 AM -- 4 sessions have actual 2805 IOPS (target IOPS: 2500)  
4/23/2008 10:42:57 AM -- Volume U: has 0.0195 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Volume V: has 0.0175 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Volume W: has 0.0193 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Volume X: has 0.0171 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Volume Y: has 0.0235 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Volume Z: has 0.0166 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Process has average database read latencies higher than 0.020.  
4/23/2008 10:42:57 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:42:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
4/23/2008 10:42:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Volume K: has 0.0003 for Avg. Disk sec/Write.  
4/23/2008 10:42:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:42:57 AM -- Operation mix: Sessions 2, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:43:27 AM -- Volume U: has 0.00011 for read latency slope.  
4/23/2008 10:43:27 AM -- Volume V: has 0.00001 for read latency slope.  
4/23/2008 10:43:27 AM -- Volume W: has 0.00047 for read latency slope.  
4/23/2008 10:43:27 AM -- Volume X: has 0.00011 for read latency slope.  
4/23/2008 10:43:27 AM -- Volume Y: has 0.00008 for read latency slope.  
4/23/2008 10:43:27 AM -- Volume Z: has 0.00013 for read latency slope.  
4/23/2008 10:45:27 AM -- 900 batch transactions/sec and 2 sessions have 1535 IOPS.  
4/23/2008 10:45:27 AM -- 2 sessions have actual 1535 IOPS (target IOPS: 2500)  
4/23/2008 10:45:27 AM -- Volume U: has 0.0104 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume V: has 0.0105 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume W: has 0.0104 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume X: has 0.0108 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume Y: has 0.0113 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume Z: has 0.0092 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume I: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:45:27 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume J: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:45:27 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Volume K: has 0.0001 for Avg. Disk sec/Write.  
4/23/2008 10:45:27 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
4/23/2008 10:45:27 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
4/23/2008 10:45:57 AM -- Volume U: has 0.00043 for read latency slope.  
4/23/2008 10:45:57 AM -- Volume V: has 0.00012 for read latency slope.  
4/23/2008 10:45:57 AM -- Volume W: has 0.00025 for read latency slope.  
4/23/2008 10:45:57 AM -- Volume X: has 0.00030 for read latency slope.  
4/23/2008 10:45:57 AM -- Volume Y: has 0.00034 for read latency slope.  
4/23/2008 10:45:57 AM -- Volume Z: has 0.00036 for read latency slope.  
4/23/2008 10:47:57 AM -- 1631 batch transactions/sec and 4 sessions have 2768 IOPS.  
4/23/2008 10:47:57 AM -- 4 sessions have actual 2768 IOPS (target IOPS: 2500)  
4/23/2008 10:47:57 AM -- Volume U: has 0.0165 for Avg. Disk sec/Read.  
4/23/2008 10:47:57 AM -- Volume V: has 0.0171 for Avg. Disk sec/Read.  
4/23/2008 10:47:57 AM -- Volume W: has 0.0176 for Avg. Disk sec/Read.  
4/23/2008 10:47:57 AM -- Volume X: has 0.0190 for Avg. Disk sec/Read.

4/23/2008 10:47:57 AM -- Volume Y: has 0.0191 for Avg. Disk sec/Read.  
 4/23/2008 10:47:57 AM -- Volume Z: has 0.0143 for Avg. Disk sec/Read.  
 4/23/2008 10:47:57 AM -- Volume I: has 0.0002 for Avg. Disk sec/Write.  
 4/23/2008 10:47:57 AM -- Volume I: has 0.0000 for Avg. Disk sec/Read.  
 4/23/2008 10:47:57 AM -- Volume J: has 0.0002 for Avg. Disk sec/Write.  
 4/23/2008 10:47:57 AM -- Volume J: has 0.0000 for Avg. Disk sec/Read.  
 4/23/2008 10:47:57 AM -- Volume K: has 0.0002 for Avg. Disk sec/Write.  
 4/23/2008 10:47:57 AM -- Volume K: has 0.0000 for Avg. Disk sec/Read.  
 4/23/2008 10:47:58 AM -- Performance logging ends.  
 4/23/2008 10:47:58 AM -- Automatic tuning succeeded.  
 4/23/2008 10:47:59 AM -- Operation mix: Sessions 4, Inserts 25%, Deletes 10%, Replaces 50%, Reads 15%, Lazy Commits 80%.  
 4/23/2008 10:47:59 AM -- Performance logging begins (interval: 15000 ms).  
 4/23/2008 10:47:59 AM -- Generating log files ...  
 4/23/2008 10:48:00 AM -- I:\Log1 (111.4% generated), I:\Log2 (112.6% generated), I:\Log3 (113.6% generated), I:\Log4 (110.8% generated), I:\Log5 (113.0% generated), I:\Log6 (112.0% generated), I:\Log7 (112.4% generated), I:\Log8 (110.8% generated), I:\Log9 (110.4% generated), I:\Log10 (114.0% generated), I:\Log11 (115.0% generated), I:\Log12 (110.4% generated), J:\Log1 (112.6% generated), J:\Log2 (111.0% generated), J:\Log3 (111.4% generated), J:\Log4 (116.0% generated), J:\Log5 (109.4% generated), J:\Log6 (113.0% generated), J:\Log7 (113.2% generated), J:\Log8 (116.4% generated), J:\Log9 (112.2% generated), J:\Log10 (111.6% generated), J:\Log11 (111.2% generated), J:\Log12 (114.2% generated), K:\Log1 (112.0% generated), K:\Log2 (110.6% generated), K:\Log3 (111.0% generated), K:\Log4 (114.0% generated), K:\Log5 (112.2% generated), K:\Log6 (108.4% generated), K:\Log7 (114.2% generated), K:\Log8 (112.0% generated), K:\Log9 (111.6% generated), K:\Log10 (109.8% generated), K:\Log11 (110.6% generated), and K:\Log12 (112.0% generated)  
 4/23/2008 10:48:01 AM -- Performance logging ends.  
 4/23/2008 10:48:01 AM -- JetInterop batch transaction stats: 10287, 10324, 10458, 10339, 10414, 10246, 10390, 10390, 10155, 10518, 10509, 10319, 10350, 10208, 10453, 10676, 10296, 10386, 10346, 10428, 10339, 10476, 10338, 10509, 10425, 10453, 10351, 10272, 10435, 10308, 10514, 10274, 10353, 10372, 10423, and 10398.  
 4/23/2008 10:48:03 AM -- Dispatching transactions ends.  
 4/23/2008 10:48:03 AM -- Shutting down databases ...  
 4/23/2008 10:49:12 AM -- Instance3696.1 (complete), Instance3696.2 (complete), Instance3696.3 (complete), Instance3696.4 (complete), Instance3696.5 (complete), Instance3696.6 (complete), Instance3696.7 (complete), Instance3696.8 (complete), Instance3696.9 (complete), Instance3696.10 (complete), Instance3696.11 (complete), Instance3696.12 (complete), Instance3696.13 (complete), Instance3696.14 (complete), Instance3696.15 (complete), Instance3696.16 (complete), Instance3696.17 (complete), Instance3696.18 (complete), Instance3696.19 (complete), Instance3696.20 (complete), Instance3696.21 (complete), Instance3696.22 (complete), Instance3696.23 (complete), Instance3696.24 (complete), Instance3696.25 (complete), Instance3696.26 (complete), Instance3696.27 (complete), Instance3696.28 (complete), Instance3696.29 (complete), Instance3696.30 (complete), Instance3696.31 (complete), Instance3696.32 (complete), Instance3696.33 (complete), Instance3696.34 (complete), Instance3696.35 (complete), and Instance3696.36 (complete)  
 4/23/2008 10:49:13 AM -- Performance logging begins (interval: 4000 ms).  
 4/23/2008 10:49:13 AM -- Recovering databases ...  
 4/23/2008 10:59:23 AM -- Performance logging ends.  
 4/23/2008 10:59:23 AM -- Instance3696.1 (593.390625), Instance3696.2 (592.796875), Instance3696.3 (569), Instance3696.4 (592.46875), Instance3696.5 (571.75), Instance3696.6 (597.140625), Instance3696.7 (538.25), Instance3696.8 (584.828125), Instance3696.9 (561.5), Instance3696.10 (592.21875), Instance3696.11 (580.828125), Instance3696.12 (586.078125), Instance3696.13 (592.796875), Instance3696.14 (581.078125), Instance3696.15 (586.828125), Instance3696.16 (598.640625), Instance3696.17 (601.390625), Instance3696.18 (580.578125), Instance3696.19 (556), Instance3696.20 (592.46875), Instance3696.21 (561.5), Instance3696.22 (586.078125), Instance3696.23 (596.890625), Instance3696.24 (595.640625), Instance3696.25 (578.25),

Instance3696.26 (579.25), Instance3696.27 (592.46875), Instance3696.28 (602.390625),  
Instance3696.29 (608.640625), Instance3696.30 (602.390625), Instance3696.31 (571.25),  
Instance3696.32 (543), Instance3696.33 (570.25), Instance3696.34 (562.5),  
Instance3696.35 (594.890625), and Instance3696.36 (584.078125)  
4/23/2008 10:59:23 AM -- [C:\Program Files\Exchange  
Jetstress\MLK\SoftRecovery\SoftRecovery\\_2008\\_4\\_23\\_10\\_49\\_12.blg](#) has 151 samples.  
4/23/2008 10:59:23 AM -- Creating test report ...