

ESRP Storage Program

EMC CLARiiON CX4-480 (42,000 User) Clustered Continuous Replication (CCR) Storage Solution for Microsoft Exchange Server 2007 SP1

Tested with: ESRP - Storage Version 2.1
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Overview

This document provides information on the EMC® CLARiiON® CX4-480 42,000 User Clustered Continuous Replication (CCR) Storage Solution for Microsoft Exchange 2007 based on the *Microsoft Exchange Solution Reviewed Program (ESRP) - Storage* program. For any questions or comments regarding the contents of this document, see the “[Contact information](#)” section.

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 copy the following URL into your browser:

<http://www.microsoft.com/technet/prodtechnol/exchange/2007/esrp.mspx>

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Features

The EMC CLARiiON CX4-480 is a versatile and cost-effective solution for organizations seeking an alternative to server-based storage. The EMC CLARiiON CX4-480 delivers performance, scalability, and advanced data management features in one easy-to-use storage solution.

The new EMC CLARiiON CX4 series has industry-changing midrange storage innovations that include:

- **Flash drives** offering Tier “0” storage with 30 times more IOPS.
- **UltraFlex technology** for dual protocol connectivity, online expansion via I/O modules, and readiness for future technologies—such as 8 Gb/s Fibre Channel (FC) and 10 Gb/s iSCSI.
- **CLARiiON Virtual Provisioning** for increased utilization, just-in-time capacity allocation, and simplified provisioning and capacity planning.
- **Multi-core Intel Xeon processors, increased memory, and 64-bit FLARE[®]**, providing up to twice the performance and scale, and the foundation for more advanced software functionality.
- **Low power SATA II drives, adaptive cooling, and disk drive spin down**—new energy-efficiency options for customers.
- **Concurrent local and remote replication (CLR)** through the integrated RecoverPoint splitter that simplifies CLARiiON CX4 series deployments.

Lowest cost of ownership

EMC CLARiiON CX4-480 supports the lowest cost of ownership by:

- Consolidating twice the workload in a single system with up to twice the performance and scalability. Competing storage providers make customers deploy multiple arrays to equal the performance and scalability of a single EMC CLARiiON CX4.
- Deferring capacity requirements. With CLARiiON Virtual Provisioning, customers can provision less. Rather than buying additional capacity up front, customers can reduce or defer initial capacity requirements. Furthermore, customers can save on acquisition and energy costs by running their systems at higher utilization rates and adding capacity as needed without disrupting applications.
- Providing investment protection. With CLARiiON CX4 UltraFlex technology, customers can add future connectivity like 8 Gb/s FC and 10 Gb/s iSCSI, rather than buying another system to support new

technology. Data-in-place upgrades allow for in-family and cross-CX-generation upgrades to CLARiiON CX4, while leveraging prior investments in drives, disk enclosures, and system software.

New energy efficiency

EMC CLARiiON CX4-480 provides new energy efficiency through:

- Support for Flash drive technology that presents 98 percent better efficiency per I/O.
- Low-power SATA drives that consume 32 percent less energy than traditional SATA drives.
- Adaptive cooling that dynamically adjusts cooling based on system activity.
- Drive spin down that delivers significant energy-efficiency advantages to applications such as backup-to-disk, archiving, and test and development.

Availability and protection

Availability and protection features in the EMC CLARiiON CX4-480 include:

- System-level availability based on CLARiiON technology that has proven to deliver Five 9s availability in customer environments.
- Site-level protection. Concurrent local and remote replication with RecoverPoint/SE provides maximum protection for physical and virtual environments.

Optimized for virtualized environments

EMC CLARiiON CX4-480 is optimized for virtualized environments through:

- Shared storage. The VMware-certified CLARiiON CX4 series, featuring UltraFlex technology, Flash drive support, and Five 9s availability, gives customers a shared storage solution that is integrated with VMware VMotion for maximum flexibility.
- RecoverPoint and VMware Site Recovery Manager. Customers can leverage VMware SRM using RecoverPoint or MirrorViewTM/S software to simplify and automate disaster recovery setup, failover, failback, and testing, while ensuring the proper execution and management of recovery plans.
- Resource management. Integrated Navisphere[®] Quality of Service Manager with VMware Distributed Resource Scheduler (DRS) provides end-to-end application service-level management from the virtual server to the CLARiiON storage.

Advanced capabilities start with the scalability to meet both the needs of today and the requirements of tomorrow. EMC CLARiiON CX4-480 models are a low-cost approach to deploying external storage. They provide an economical storage platform for applications such as replication, backup-to-disk and a variety of data archiving tasks. Features include:

- 15 drives per enclosure
- Scaling up to 480 drives through additional expansion enclosures
- Four FC front-end and four FC back-end buses per system
- Choice of additional I/O connectivity with UltraFlex I/O modules (FC or iSCSI)
- Storage for up to 64 hosts

With support for both iSCSI and FC connectivity, the EMC CLARiiON CX4-480 enables organizations to use the right network interconnection for their environments on the same system right out of factory, with the ability to expand in the future. The EMC CLARiiON CX4-480 arrays support cost-effective, shared storage by utilizing iSCSI interconnection with widely available IP networking components for direct-attach to a network, using conventional Ethernet switches. EMC CLARiiON CX4-480 arrays, using 4 Gb/s and 1Gb/s iSCSI connections, utilize modularity with I/O connectivity through UltraFlex to provide cost-effective, direct-attach configurations with a wide range of SAN switch options to create SANs for up to 64 high-availability servers. Each controller supports up to 12 x 4 Gb/s FC front-end ports or 16 x 1 Gb/s iSCSI.

The EMC CLARiiON CX4-480 series delivers functionality that releases the benefits of tiered storage. It is the answer to storage consolidation for heterogeneous environments. It supports Windows, Linux, AIX, HP-UX, Solaris, and VMware.

The EMC CLARiiON CX4-480 supports FC, SATA II, low-power SATA II, and Flash drives.

Solution description

Sizing and configuring storage for use with the Microsoft Exchange Server is an intricate process, driven by many variables and factors that differ from one organization to another.

The method described in this ESRP submission is the *building block* method. The building block method is used to simplify sizing and configuration when using a low number of disks to ensure the highest performance while staying fault tolerant.

The solution described in this document utilizes 13 DAEs (Disk Array Enclosure) with 168 drives for databases, 16 drives for log files, 2 drives for mount points, and multiple hot spares for increased fault tolerance for the primary storage. There is an identical configuration and number of drives (186) on the replicated storage. This solution enables an organization to successfully consolidate and deploy Microsoft Exchange CCR servers using two EMC CLARiiON CX4-480s.

For the configuration described in this paper, Exchange is configured with one Exchange database per Exchange storage group. There are 12 total storage groups per server, 7 Microsoft Windows 2003 SP2 x64 servers, 1 x 1Gb/s Ethernet switch, and 2 Qlogic SAN boxes for fibre connectivity.

All server connections LUNs are balanced to each array storage processor. The database and log files are then further balanced to ensure that a storage group's database will always be configured with one service processor as primary, while the log file drive for the corresponding storage group uses the second storage processor as primary.

The unit of measure—or *building block*—is designed to be scalable based on the I/O and latency requirements of the customer. The building blocks are designed around the Microsoft Exchange database drives in increments, using RAID 1_0 sets that give reproducible and scalable results as incremental building blocks are added.

Figure 1 illustrates the layout of the physical architecture.

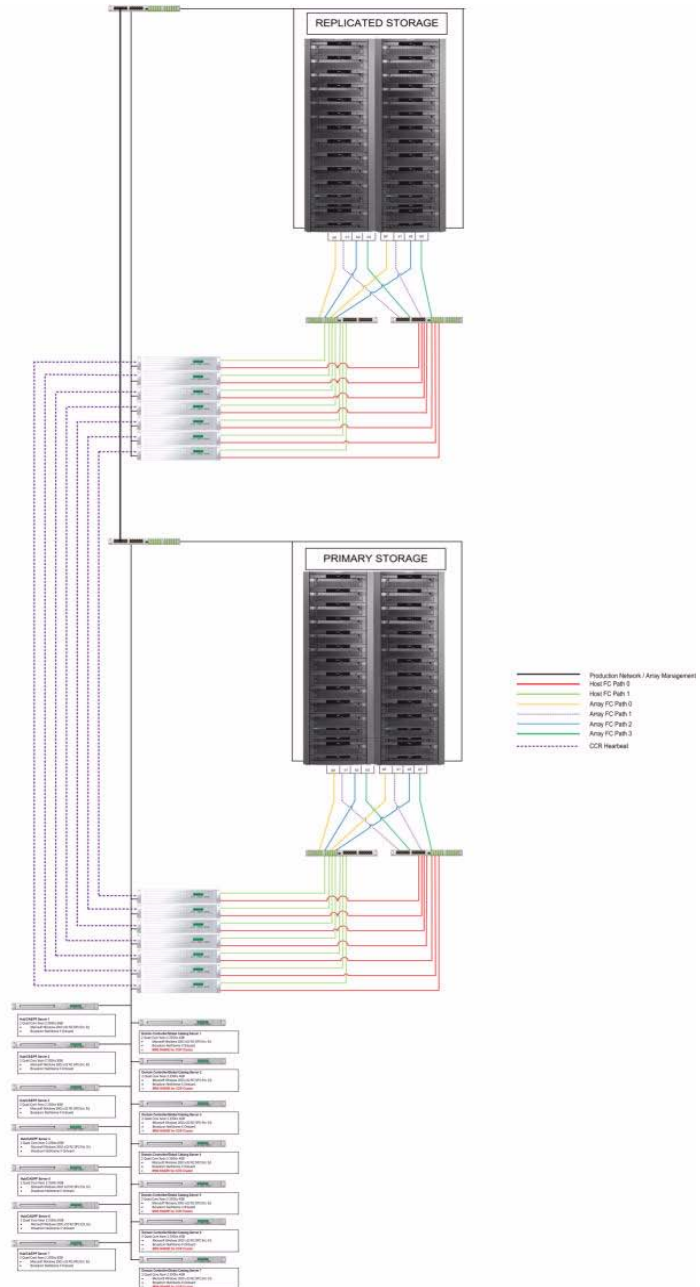


Figure 1 Physical architecture

Figure 2 shows the drive layout.

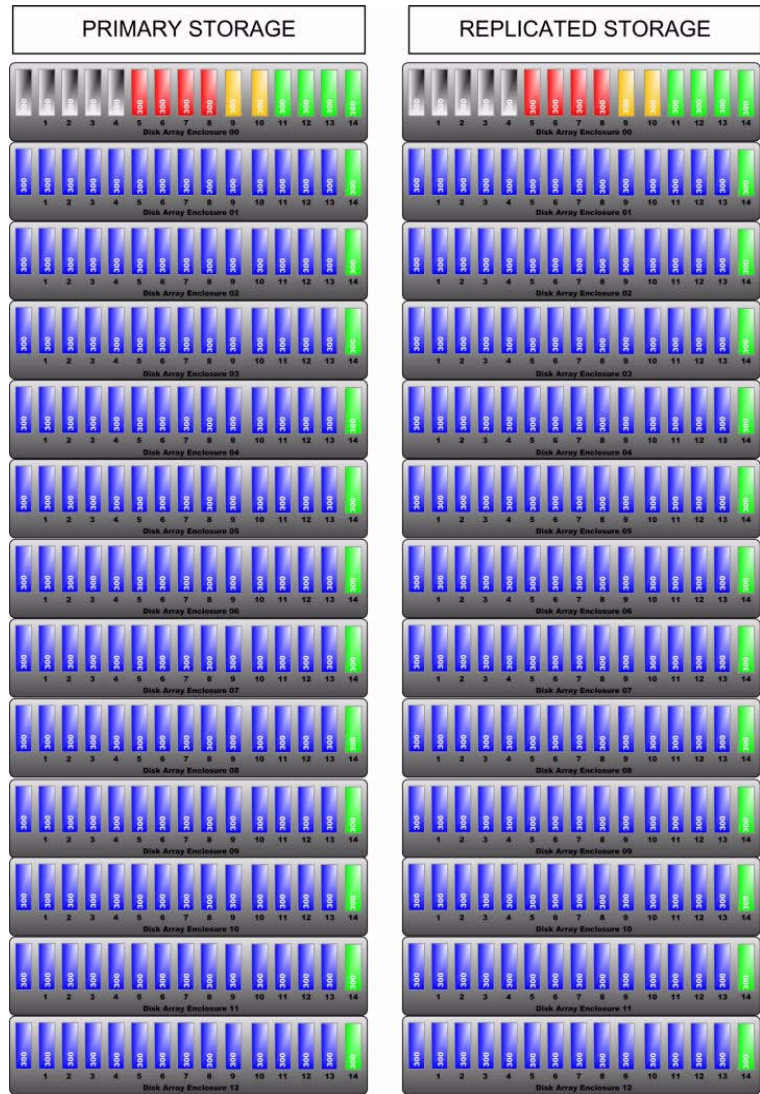


Figure 2 Drive layout

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 consider when designing a scalable Exchange solution. Other factors that 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

Due to such variables, the number of mailboxes hosted per server, as part of the tested configuration, may not necessarily be viable for some customer deployments.

For more information on identifying and addressing performance bottlenecks in an Exchange system, 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 large enterprise businesses hosting 42,000 Exchange mailboxes. The configuration used for testing is described below:

- Seven hosts are attached
- User I/O profile of .48
- User mailbox size of 400 MB

Tested deployment

The following tables summarize the tested environment.

Simulated Exchange configuration

Table 1 lists the simulated Exchange configuration details.

Table 1 Simulated Exchange configuration

Item	Description
Number of Exchange mailboxes simulated	42,000
Number of hosts	7
Number of mailboxes/host	6,000
Number of storage groups/host	12
Number of mailbox stores/storage group	1
Number of mailboxes/mailbox store	500
Number of mailbox store LUNs/storage group	1
Simulated profile: I/Os per second per mailbox (IOPS, include 20% headroom)	.5
Database LUN size	268 GB
Log LUN size	25 GB
Backup LUN size/storage group	N/A
Total database size for performance testing	227 GB
% storage capacity used by Exchange database**	80%

**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

Table 2 lists the primary storage hardware used in the environment.

Table 2 Primary storage hardware

Item	Description
Storage type (FC, SAS, SATA, iSCSI)	FC
Storage model and OS/firmware revision	EMC CLARiiON CX4-40 (CX4-480) Firmware FLARE® V4.28
Storage cache	5 GB
Number of storage controllers	2
Number of storage ports	8
Maximum bandwidth of storage connectivity to host	8*4 Gb/s
Switch type/model/firmware revision	QLogic SANbox 5602 FC Switch Firmware version. 6.8.0.3.0
HBA model and firmware	QLOGIC
Number of HBAs/host	2
Host server type	Processor(s): 8 Processor(s) Installed. [01]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [02]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [03]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [04]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [05]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [06]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [07]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [08]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz Total Physical Memory: 32,767 MB
Total number of disks tested in solution	184, 2 additional for Mount Points
Maximum number of spindles can be hosted in the storage	480

Primary storage software

Table 3 lists the primary storage software used in the environment.

Table 3 Primary storage software

Item	Description
HBA driver	QLogic 9.1.7.16 2/15/2008
HBA QueueTarget setting	N/A
HBA QueueDepth setting	128
Multipathing	EMC powermt for PowerPath [®] version 5.1.0 (build 51)
Host OS	Microsoft Windows Server 2003 Enterprise x64 Edition 5.2.3790 Service Pack 2 Build 3790
ESE .dll file version	08.01.0240.005
Replication solution name/version	Exchange CCR SP1

Primary storage disk configuration (mailbox store disks)

Table 4 lists the primary storage disk configuration (mailbox store disks) for the environment.

Table 4 Primary storage disk configuration (mailbox store)

Item	Description
Disk type, speed and firmware revision	CLAR300 Seagate 15k: 630F: FC
Raw capacity per disk (GB)	268.4 GB
Number of physical disks in test	168
Total raw storage capacity (GB)	45091.2 GB
Disk slice size (GB)	134 GB
Number of slices per LUN or number of disks per LUN	3 RAID groups / 4+4 total 24 drives per server
RAID level	RAID 1_0 / MetaLUNs
Total formatted capacity	22545.6 GB
Storage capacity utilization	50%
Database capacity utilization	40%

Primary storage disk configuration (transactional log disks)

Table 5 lists the primary storage disk configuration (transactional log disks) for the environment.

Table 5 Primary storage disk configuration

Item	Description
Disk type, speed and firmware revision	CLAR300 Seagate 15k: 630F: FC
Raw capacity per disk (GB)	268.4 GB
Number of spindles in test	16
Total raw storage capacity (GB)	4294.4 GB
Disk slice size	25
Number of slices per LUN or number of disks per LUN	42 LUNs / RAID Group
RAID level	RAID 1_0
Total formatted capacity	2147.2 GB

Replication configuration

Table 6 lists the replication configuration for the environment.

Table 6 **Replication configuration**

Item	Description
Replication mechanism	CCR
Number of links	
Simulated link distance	N/A
Link type	N/A
Link bandwidth	

Replicated storage hardware

Table 7 lists the replicated storage hardware used in the environment.

Table 7 **Replicated storage hardware**

Item	Description
Storage type (FC, SAS, SATA, iSCSI)	FC
Storage model and OS/firmware revision	EMC CLARiiON CX4-40 (CX4-480) Firmware FLARE [®] V4.28
Storage cache	5 GB
Number of storage controllers	2
Number of storage ports	8
Maximum bandwidth of storage connectivity to host	8*4 Gb/s
Switch type/model/firmware revision	QLogic SANbox 5602 FC Switch Firmware version. 6.8.0.3.0
HBA model and firmware	QLOGIC
Number of HBAs/host	2
Host server type	Processor(s): 8 Processor(s) Installed. [01]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [02]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [03]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [04]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [05]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [06]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [07]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz [08]: EM64T Family 6 Model 15 Stepping 7 GenuineIntel ~2328 MHz Total Physical Memory: 32,767 MB
Total number of disks tested in solution	184, 2 additional for Mount Points
Maximum number of spindles can be hosted in the storage	480

Replicated storage software

Table 8 lists the replicated storage software used in the environment.

Table 8 **Replicated storage software**

Item	Description
HBA driver	QLogic 9.1.7.16 2/15/2008
HBA QueueTarget setting	N/A
HBA QueueDepth setting	128
Multipathing	EMC powermt for PowerPath [®] version 5.1.0 (build 51)
Host OS	Microsoft Windows Server 2003 Enterprise x64 Edition 5.2.3790 Service Pack 2 Build 3790
ESE .dll file version	08.01.0240.005
Replication solution name/version	Exchange CCR SP1

Replicated storage disk configuration (mailbox store disks)

Table 9 lists the replicated storage disk configuration (mailbox store disks) for the environment.

Table 9 **Replicated storage disk configuration (mailbox store)**

Item	Description
Disk type, speed and firmware revision	CLAR300 Seagate 15k: 630F: FC
Raw capacity per disk (GB)	268.4 GB
Number of physical disks in test	168
Total raw storage capacity (GB)	45091.2 GB
Disk slice size (GB)	134 GB
Number of slices per LUN or number of disks per LUN	3 RAID groups / 4+4 total 24 drives per server
RAID level	RAID 1_0 / MetaLUNs
Total formatted capacity	22545.6 GB
Storage capacity utilization	50%
Database capacity utilization	40%

Replicated storage disk configuration (transactional log disks)

Table 10 lists the replicated storage disk configuration (transactional log disks) for the environment.

Table 10 **Replicated storage disk configuration**

Item	Description
Disk type, speed and firmware revision	CLAR300 Seagate 15k: 630F: FC
Raw capacity per disk (GB)	268.4 GB
Number of spindles in test	16
Total raw storage capacity (GB)	4294.4 GB
Disk slice size	25
Number of slices per LUN or number of disks per LUN	42 LUNs / RAID Group
RAID level	RAID 1_0
Total formatted capacity	2147.2 GB

Best practices

Microsoft Exchange Server is a disk-intensive application. It is characterized as a very bursty read/write operation to the database files, with a sequential (mostly 512 byte) write operation to the transaction logs. It is this random, bursty workload—with periods of high peaks—that makes designing a well-performing storage solution with Microsoft Exchange Server a challenge. Different corporate environments have different user and storage requirements, so storage design cannot be based simply on generalizations.

Based on the testing run using an ESRP framework, EMC recommends following these best practices to improve storage performance with Exchange solutions. For Microsoft's Exchange 2007 best practices on storage design, visit:

<http://technet.microsoft.com/en-us/library/bb124518.aspx>

1. Use Diskpart (in Microsoft Windows 2003 SP2 x64) to align all disks used with Microsoft Exchange, using a value of 64 for CLARiiON. This aligns all of the Exchange-related NTFS partitions on a 64 KB boundary.
2. Isolate the Microsoft Exchange Database workload from other I/O intensive applications or workloads. This ensures the highest levels of performance for Microsoft Exchange and makes troubleshooting efforts easier in the event of a disk-related Microsoft Exchange performance issue.
3. Size and configure the environment for spindle performance as a primary consideration, with storage capacity as secondary.
4. Use PowerPath 5.1.0 utilizing a balanced path approach.
5. Configure fibre switches with zones to isolate and ensure server and SAN connectivity.
6. Tuning the CX4 storage system parameters is important for obtaining best performance. The following list details the optimal parameters for Exchange:
 - Cache page size of 8 KB
 - Balance read and write caching
 - Read and write cache enabled for all LUNs
 - Read cache minimum of 50-100 MB for prefetch

Test result summary

This section provides a high-level summary of the test data from ESRP, as well as links to the detailed reports that are generated by the ESRP testing framework. The results are located in [“Appendix A: Jetstress results” on page 32](#).

Reliability

A number of the tests in the framework are designed to test reliability over a 24-hour period. The goal of these tests is to verify that the storage can handle high I/O load for a long period of time while replicating synchronously. Following the stress test, both log and database files are analyzed for integrity to ensure there is no database/log corruption.

- No errors were reported in the event log file for the storage reliability testing.
- No errors were reported for the database and log checksum.
- The backup-to-disk test is not applicable.
- No errors were reported during database checksum on the remote storage database.

Primary storage performance results

To see the Jetstress performance results (2-hour performance test), see the section [“Microsoft Exchange Server 2007 Jetstress 2-hour performance” on page 32](#).

Performance testing exercises the storage with maximum sustainable Exchange-type I/O for two hours. The test is used to show how long it takes for the storage to respond to an I/O under load. The data included in the following tables is a sample taken from each of the attached hosts. It is the average of all the logical disks in the two-hour test duration.

Each server is listed separately, and the aggregate numbers across all servers are listed in [“Individual server metrics” on page 24](#).

Individual server metrics

The information in these tables includes the sum of I/Os across storage groups and the average latency across all storage groups on a per-server basis.

Server 1

Database I/O	
Database disks transfers/sec	3129.16
Database disks reads/sec	1610.643
Database disks writes/sec	1518.515
Average database disk read latency (ms)	14.7
Average database disk write latency (ms)	7.5
Transaction log I/O	
Log disks writes/sec	901.143
Average log disk write latency (ms)	3.0

Server 2

Database I/O	
Database disks transfers/sec	3116.95
Database disks reads/sec	1607.52
Database disks writes/sec	1509.426
Average database disk read latency (ms)	14.7
Average database disk write latency (ms)	7.8
Transaction log I/O	
Log disks writes/sec	899.76
Average log disk write latency (ms)	3.0

Server 3

Database I/O	
Database disks transfers/sec	3117.80
Database disks reads/sec	1608.387
Database disks writes/sec	1509.415
Average database disk read latency (ms)	14.7
Average database disk write latency (ms)	7.5
Transaction log I/O	
Log disks writes/sec	898.277
Average log disk write latency (ms)	3.0

Server 4

Database I/O	
Database disks transfers/sec	3128.74
Database disks reads/sec	1609.16
Database disks writes/sec	1519.583
Average database disk read latency (ms)	14.8
Average database disk write latency (ms)	7.5
Transaction log I/O	
Log disks writes/sec	914.196
Average log disk write latency (ms)	3.0

Server 5

Database I/O	
Database disks transfers/sec	3133.39
Database disks reads/sec	1616.68
Database disks writes/sec	1516.713
Average database disk read latency (ms)	0.01475
Average database disk write latency (ms)	0.0075
Transaction log I/O	
Log disks writes/sec	914.196
Average log disk write latency (ms)	3.0

Server 6

Database I/O	
Database disks transfers/sec	3144.31
Database disks reads/sec	1624.08
Database disks writes/sec	1520.226
Average database disk read latency (ms)	14.8
Average database disk write latency (ms)	7.5
Transaction log I/O	
Log disks writes/sec	918.599
Average log disk write latency (ms)	3.0

Server 7

Database I/O	
Database disks transfers/sec	3137.15
Database disks reads/sec	1618.086
Database disks writes/sec	1519.063
Average database disk read latency (ms)	14.8
Average database disk write latency (ms)	7.5
Transaction log I/O	
Log disks writes/sec	915.851
Average log disk write latency (ms)	3.0

Aggregate performance across all servers metrics

The information in this table includes the sum of I/Os across servers in the solution, and the average latency across all servers in the solution.

Database I/O	
Database disks transfers/sec	21907.4970
Database disks reads/sec	11294.5560
Database disks writes/sec	10612.941
Average database disk read latency (ms)	14.7
Average database disk write latency (ms)	7.5
Transaction log I/O	
Log disks writes/sec	6350.9160
Average log disk write latency (ms)	3.0

Recovery performance

The soft recovery test is to measure the read I/O performance metrics by running a checksum on all the databases and log files.

Log read-only performance

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

Server 1

Average time to play one log file (sec)	.610
---	------

Server 2

Average time to play one log file (sec)	.625
---	------

Server 3

Average time to play one log file (sec)	.598
---	------

Server 4

Average time to play one log file (sec)	.592
---	------

Server 5

Average time to play one log file (sec)	.605
---	------

Server 6

Average time to play one log file (sec)	.608
---	------

Server 7

Average time to play one log file (sec)	.602
---	------

Streaming backup/recovery performance

For the version 1.0 release, only streaming backup type is supported for testing in the framework. There are two tests in this section. The first one is to measure the read I/O performance metrics by running checksum on all the databases and log files. The second test is to measure the end-to-end performance when the databases are backed up to disks.

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.

Server 1

MB read/sec per storage group	11.38
MB read/sec total	136.59

Server 2

MB read/sec per storage group	11.42
MB read/sec total	136.98

Server 3

MB read/sec per storage group	11.41
MB read/sec total	136.96

Server 4

MB read/sec per storage group	11.41
MB read/sec total	136.95

Server 5

MB read/sec per storage group	11.43
MB read/sec total	137.12

Server 6

MB read/sec per storage group	11.43
MB read/sec total	137.12

Server 7

MB read/sec per storage group	11.43
MB read/sec total	137.18

Conclusion

This document has been developed by EMC, and reviewed by the Microsoft Exchange Product team. The test results/data presented in this document are based on the tests introduced in the ESRP test framework. The customers should not quote the data directly for their predeployment verification. It is still necessary to go through the exercises to validate the storage design for a specific customer environment.

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

Contact information

EMC recommends that you consult with EMC Professional Services to assist with the design and deployment of a similar solution. For information regarding this or any other EMC solution, use the following numbers:

United States: **(800) 782-4362 (SVC-4EMC)**

Canada: **(800) 543-4782 (543-4SVC)**

Worldwide: **(508) 497-7901**

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<http://EMC.com>

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Appendix A: Jetstress results

This section provides a high-level summary of the performance test data.

Microsoft Exchange Server 2007 Jetstress 2-hour performance

Performance test result report - Server 1

Test summary

Overall Test Result	Pass
Machine Name	EXN1-CX4ESRP
Test Description	
Test Start Time	6/28/2008 12:20:39 PM
Test End Time	6/28/2008 2:27:05 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_5.blg

Database sizing and throughput

Achieved I/O per Second	3129.16
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2773898428416
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.008	133.825	127.269	(n/a)
Database (t:\sgdb2)	0.014	0.007	135.150	127.664	(n/a)
Database (s:\sgdb3)	0.015	0.008	133.659	125.072	(n/a)
Database (t:\sgdb4)	0.015	0.007	134.079	126.643	(n/a)
Database (s:\sgdb5)	0.015	0.008	134.195	126.539	(n/a)
Database (t:\sgdb6)	0.014	0.007	133.135	124.810	(n/a)
Database (s:\sgdb7)	0.015	0.008	135.445	127.983	(n/a)
Database (t:\sgdb8)	0.015	0.007	134.554	127.229	(n/a)
Database (s:\sgdb9)	0.015	0.008	134.621	127.778	(n/a)
Database (t:\sgdb10)	0.014	0.007	133.613	126.234	(n/a)
Database (s:\sgdb11)	0.015	0.008	134.499	125.482	(n/a)
Database (t:\sgdb12)	0.015	0.007	133.868	125.812	(n/a)
Log (t:\sglg1)	0.000	0.003	0.000	75.792	4692.508
Log (s:\sglg2)	0.000	0.003	0.000	74.940	4813.819
Log (t:\sglg3)	0.000	0.003	0.000	75.251	4756.517

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (s:\sglg4)	0.000	0.003	0.000	74.893	4794.220
Log (t:\sglg5)	0.000	0.003	0.000	75.364	4725.362
Log (s:\sglg6)	0.000	0.003	0.000	73.617	4826.207
Log (t:\sglg7)	0.000	0.003	0.000	76.430	4755.765
Log (s:\sglg8)	0.000	0.003	0.000	74.762	4782.752
Log (t:\sglg9)	0.000	0.003	0.000	76.198	4749.301
Log (s:\sglg10)	0.000	0.003	0.000	74.361	4865.807
Log (t:\sglg11)	0.000	0.003	0.000	75.209	4751.021
Log (s:\sglg12)	0.000	0.003	0.000	74.326	4728.947

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.610	2.047	5.367
Available MBytes	28132.952	28126.000	28403.000
Free System Page Table Entries	16752510.000	16752510.000	16752510.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	81742446.933	81022976.000	82591744.000
Pool Paged Bytes	51389457.067	51314688.000	51421184.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 12:20:39 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\109t2ss.xml"

6/28/2008 12:20:39 PM -- Jetstress testing begins ...

6/28/2008 12:20:39 PM -- Prepare testing begins ...

6/28/2008 12:20:52 PM -- Attaching databases ...

6/28/2008 12:20:52 PM -- Prepare testing ends.

6/28/2008 12:20:52 PM -- Dispatching transactions begins ...

6/28/2008 12:20:52 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 12:20:52 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 12:21:05 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05

seconds/read).

6/28/2008 12:21:05 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 12:21:06 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 12:21:06 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 12:21:06 PM -- Attaining prerequisites:

6/28/2008 12:27:01 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2900607000.0 (lower bound: 2899103000.0, upper bound: none)

6/28/2008 2:27:03 PM -- Performance logging ends.

6/28/2008 2:27:03 PM -- JetInterop batch transaction stats: 29992, 30209, 30076, 30016, 30012, 29862, 30189, 30091, 30135, 30030, 30148, and 30012.

6/28/2008 2:27:03 PM -- Dispatching transactions ends.

6/28/2008 2:27:03 PM -- Shutting down databases ...

6/28/2008 2:27:05 PM -- Instance2600.1 (complete), Instance2600.2 (complete), Instance2600.3 (complete), Instance2600.4 (complete), Instance2600.5 (complete), Instance2600.6 (complete), Instance2600.7 (complete), Instance2600.8 (complete), Instance2600.9 (complete), Instance2600.10 (complete), Instance2600.11 (complete), and Instance2600.12 (complete)

6/28/2008 2:27:05 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_5.blg has 503 samples.

6/28/2008 2:27:05 PM -- Creating test report ...

6/28/2008 2:27:13 PM -- Volume s:\sgdb1 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sgdb2 has 0.0142 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sgdb3 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sgdb4 has 0.0153 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sgdb5 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sgdb6 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sgdb7 has 0.0146 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sgdb8 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sgdb9 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sgdb10 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sgdb11 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sgdb12 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sglg1 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:13 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sglg2 has 0.0033 for Avg. Disk sec/Write.

6/28/2008 2:27:13 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sglg3 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:13 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sglg4 has 0.0033 for Avg. Disk sec/Write.

6/28/2008 2:27:13 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume t:\sglg5 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:13 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:13 PM -- Volume s:\sglg6 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:13 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:13 PM -- Volume t:\sglg7 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:13 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:13 PM -- Volume s:\sglg8 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:13 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:13 PM -- Volume t:\sglg9 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:13 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:13 PM -- Volume s:\sglg10 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:13 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:13 PM -- Volume t:\sglg11 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:13 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:13 PM -- Volume s:\sglg12 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:13 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:13 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 2:27:13 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 2:27:13 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour
performance\Performance_2008_6_28_12_21_5.xml has 479 samples queried.

Soft Recovery Test Result Report - Microsoft Exchange Server Jetstress - Server 1

Soft Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance3016.1	506	831.7712928
Instance3016.2	508	830.2712544
Instance3016.3	517	834.2713568
Instance3016.4	504	830.7712672
Instance3016.5	506	831.0212736
Instance3016.6	500	828.0211968
Instance3016.7	507	830.5212608
Instance3016.8	503	829.7712416
Instance3016.9	509	832.7713184
Instance3016.10	505	830.021248
Instance3016.11	512	833.5213376
Instance3016.12	510	833.2713312

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.132	0.020	291.477	6.145	(n/a)
Database (t:\sgdb2)	0.126	0.021	293.295	6.172	(n/a)
Database (s:\sgdb3)	0.134	0.022	294.841	6.261	(n/a)
Database (t:\sgdb4)	0.136	0.020	290.825	6.128	(n/a)
Database (s:\sgdb5)	0.133	0.022	293.702	6.149	(n/a)
Database (t:\sgdb6)	0.126	0.021	294.317	6.088	(n/a)
Database (s:\sgdb7)	0.133	0.021	292.484	6.159	(n/a)
Database (t:\sgdb8)	0.136	0.021	292.346	6.113	(n/a)
Database (s:\sgdb9)	0.125	0.020	294.890	6.167	(n/a)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (t:\sgdb10)	0.126	0.019	294.099	6.147	(n/a)
Database (s:\sgdb11)	0.130	0.021	293.990	6.208	(n/a)
Database (t:\sgdb12)	0.133	0.020	294.925	6.194	(n/a)
Log (t:\sglg1)	0.008	0.020	20.118	1.050	3989.185
Log (s:\sglg2)	0.007	0.023	20.197	1.054	4014.900
Log (t:\sglg3)	0.007	0.020	20.548	1.054	3900.640
Log (s:\sglg4)	0.007	0.016	20.044	1.053	3956.522
Log (t:\sglg5)	0.008	0.023	20.125	1.065	3892.576
Log (s:\sglg6)	0.007	0.015	19.882	1.049	4042.298
Log (t:\sglg7)	0.007	0.017	20.165	1.049	4001.631
Log (s:\sglg8)	0.007	0.015	20.003	1.055	3912.978
Log (t:\sglg9)	0.007	0.020	20.235	1.041	4014.380
Log (s:\sglg10)	0.007	0.018	20.080	1.065	4041.083
Log (t:\sglg11)	0.008	0.021	20.348	1.042	3909.707
Log (s:\sglg12)	0.007	0.021	20.272	1.046	3888.807

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	15.907	8.028	42.025
Available MBytes	28496.726	28106.000	31251.000
Free System Page Table Entries	16751990.000	16751990.000	16751990.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	89132051.692	80658432.000	90091520.000
Pool Paged Bytes	57201860.923	56745984.000	57688064.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 3:40:36 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\109t2ss.xml"

6/28/2008 3:40:36 PM -- Jetstress testing begins ...

6/28/2008 3:40:36 PM -- Prepare testing begins ...

6/28/2008 3:40:49 PM -- Attaching databases ...

6/28/2008 3:40:49 PM -- Prepare testing ends.

6/28/2008 3:40:49 PM -- Dispatching transactions begins ...

6/28/2008 3:40:49 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 3:40:49 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 3:41:02 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 3:41:02 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 3:41:03 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 3:41:03 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 3:41:03 PM -- Generating log files ...

6/28/2008 4:37:00 PM -- t:\sglg1 (101.4% generated), s:\sglg2 (101.8% generated), t:\sglg3 (103.6% generated), s:\sglg4 (101.0% generated), t:\sglg5 (101.4% generated), s:\sglg6 (100.2% generated), t:\sglg7 (101.6% generated), s:\sglg8 (100.8% generated), t:\sglg9 (102.0% generated), s:\sglg10 (101.2% generated), t:\sglg11 (102.6% generated), and s:\sglg12 (102.2% generated)

6/28/2008 4:37:01 PM -- Performance logging ends.

6/28/2008 4:37:01 PM -- JetInterop batch transaction stats: 12896, 13046, 13045, 12828, 13017, 12871, 13000, 12872, 12861, 13072, 12873, and 13074.

6/28/2008 4:37:01 PM -- Dispatching transactions ends.

6/28/2008 4:37:01 PM -- Shutting down databases ...

6/28/2008 4:37:04 PM -- Instance3016.1 (complete), Instance3016.2 (complete), Instance3016.3 (complete), Instance3016.4 (complete), Instance3016.5 (complete), Instance3016.6 (complete), Instance3016.7 (complete), Instance3016.8 (complete), Instance3016.9 (complete), Instance3016.10 (complete), Instance3016.11 (complete), and Instance3016.12 (complete)

6/28/2008 4:37:04 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_2.blg has 223 samples.

6/28/2008 4:37:04 PM -- Creating test report ...

6/28/2008 4:37:07 PM -- Volume s:\sgdb1 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume t:\sgdb2 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume s:\sgdb3 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume t:\sgdb4 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume s:\sgdb5 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume t:\sgdb6 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume s:\sgdb7 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume t:\sgdb8 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume s:\sgdb9 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 4:37:07 PM -- Volume t:\sgdb10 has 0.0140 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume s:\sgdb11 has 0.0150 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume t:\sgdb12 has 0.0157 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume t:\sglg1 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume t:\sglg1 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume s:\sglg2 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume s:\sglg2 has 0.0028 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume t:\sglg3 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume t:\sglg3 has 0.0019 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume s:\sglg4 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume s:\sglg4 has 0.0021 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume t:\sglg5 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume t:\sglg5 has 0.0024 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume s:\sglg6 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume s:\sglg6 has 0.0025 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume t:\sglg7 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume t:\sglg7 has 0.0023 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume s:\sglg8 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume s:\sglg8 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume t:\sglg9 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume t:\sglg9 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume s:\sglg10 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume s:\sglg10 has 0.0023 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume t:\sglg11 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume t:\sglg11 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Volume s:\sglg12 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:37:07 PM -- Volume s:\sglg12 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:37:07 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 4:37:07 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 4:37:07 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\Performance_2008_6_28_15_41_2.xml has 222 samples queried.
6/28/2008 4:37:07 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\Performance_2008_6_28_15_41_2.html is saved.
6/28/2008 4:37:08 PM -- Performance logging begins (interval: 4000 ms).
6/28/2008 4:37:08 PM -- Recovering databases ...
6/28/2008 4:51:03 PM -- Performance logging ends.
6/28/2008 4:51:03 PM -- Instance3016.1 (831.7712928), Instance3016.2 (830.2712544), Instance3016.3
(834.2713568), Instance3016.4 (830.7712672), Instance3016.5 (831.0212736), Instance3016.6
(828.0211968), Instance3016.7 (830.5212608), Instance3016.8 (829.7712416), Instance3016.9
(832.7713184), Instance3016.10 (830.021248), Instance3016.11 (833.5213376), and Instance3016.12
(833.2713312)
6/28/2008 4:51:03 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\SoftRecovery_2008_6_28_16_37_7.blg has 208 samples.

Stress Test Result Report - Server 1

Test summary

Overall Test Result	Pass
Machine Name	EXN1-CX4ESRP
Test Description	
Test Start Time	7/4/2008 12:13:48 PM
Test End Time	7/5/2008 12:20:07 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_13.blg

Database sizing and throughput

Achieved I/O per Second	3129.581
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2878911217664
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.007	140.308	121.023	(n/a)
Database (t:\sgdb2)	0.014	0.006	140.370	120.916	(n/a)
Database (s:\sgdb3)	0.014	0.007	140.192	120.760	(n/a)
Database (t:\sgdb4)	0.015	0.006	140.514	121.033	(n/a)
Database (s:\sgdb5)	0.014	0.007	140.376	120.610	(n/a)
Database (t:\sgdb6)	0.014	0.006	139.823	119.766	(n/a)
Database (s:\sgdb7)	0.014	0.007	140.271	120.778	(n/a)
Database (t:\sgdb8)	0.015	0.006	139.991	120.382	(n/a)
Database (s:\sgdb9)	0.015	0.007	140.289	120.606	(n/a)
Database (t:\sgdb10)	0.014	0.006	139.882	119.786	(n/a)
Database (s:\sgdb11)	0.015	0.007	140.363	120.690	(n/a)
Database (t:\sgdb12)	0.015	0.006	140.171	120.681	(n/a)
Log (t:\sglg1)	0.000	0.002	0.000	75.941	4558.468
Log (s:\sglg2)	0.000	0.003	0.000	75.270	4616.353
Log (t:\sglg3)	0.000	0.002	0.000	75.896	4561.687

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (s:\sglg4)	0.000	0.003	0.000	75.750	4569.882
Log (t:\sglg5)	0.000	0.002	0.000	75.778	4565.766
Log (s:\sglg6)	0.000	0.003	0.000	75.028	4600.868
Log (t:\sglg7)	0.000	0.002	0.000	76.028	4562.143
Log (s:\sglg8)	0.000	0.003	0.000	75.530	4574.174
Log (t:\sglg9)	0.000	0.002	0.000	75.834	4569.185
Log (s:\sglg10)	0.000	0.003	0.000	74.857	4589.348
Log (t:\sglg11)	0.000	0.002	0.000	75.889	4550.838
Log (s:\sglg12)	0.000	0.003	0.000	75.585	4561.083

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.757	1.714	10.040
Available MBytes	28141.957	28121.000	28395.000
Free System Page Table Entries	16753194.158	16753190.000	16753260.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	76535693.096	72282112.000	77328384.000
Pool Paged Bytes	46407128.602	46039040.000	47005696.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

7/4/2008 12:13:48 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\109t2ss.xml"

7/4/2008 12:13:48 PM -- Jetstress testing begins ...

7/4/2008 12:13:48 PM -- Prepare testing begins ...

7/4/2008 12:14:00 PM -- Attaching databases ...

7/4/2008 12:14:00 PM -- Prepare testing ends.

7/4/2008 12:14:00 PM -- Dispatching transactions begins ...

7/4/2008 12:14:00 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

7/4/2008 12:14:00 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

7/4/2008 12:14:13 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1 seconds/read).

7/4/2008 12:14:13 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).

7/4/2008 12:14:14 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

7/4/2008 12:14:14 PM -- Performance logging begins (interval: 15000 ms).

7/4/2008 12:14:14 PM -- Attaining prerequisites:

7/4/2008 12:20:03 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2903458000.0 (lower bound: 2899103000.0, upper bound: none)

7/5/2008 12:20:05 PM -- Performance logging ends.

7/5/2008 12:20:05 PM -- JetInterop batch transaction stats: 334195, 335099, 334297, 334929, 333877, 333428, 334708, 333861, 334496, 333365, 334296, and 333914.

7/5/2008 12:20:06 PM -- Dispatching transactions ends.

7/5/2008 12:20:06 PM -- Shutting down databases ...

7/5/2008 12:20:07 PM -- Instance2960.1 (complete), Instance2960.2 (complete), Instance2960.3 (complete), Instance2960.4 (complete), Instance2960.5 (complete), Instance2960.6 (complete), Instance2960.7 (complete), Instance2960.8 (complete), Instance2960.9 (complete), Instance2960.10 (complete), Instance2960.11 (complete), and Instance2960.12 (complete)

7/5/2008 12:20:07 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_13.blg has 5780 samples.

7/5/2008 12:20:07 PM -- Creating test report ...

7/5/2008 12:22:01 PM -- Volume s:\sgdb1 has 0.0148 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb2 has 0.0138 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb3 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb4 has 0.0151 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb5 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb6 has 0.0136 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb7 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb9 has 0.0146 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb10 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb11 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb12 has 0.0150 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sglg1 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sglg2 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sglg3 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sglg4 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sglg5 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sglg6 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume t:\sglg7 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume s:\sglg8 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume t:\sglg9 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume s:\sglg10 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume t:\sglg11 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume s:\sglg12 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:02 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
7/5/2008 12:22:02 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
7/5/2008 12:22:02 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour
stress\Stress_2008_7_4_12_14_13.xml has 5756 samples queried.

Jetstress Streaming Backup Performance (no backup) - Server 1

Microsoft Exchange Server Jetstress Streaming backup Test Result Report

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance2664.1	220461.65	05:36:55	10.91
Instance2664.2	220461.65	05:17:25	11.58
Instance2664.3	220451.65	05:29:13	11.16
Instance2664.4	220459.65	05:17:27	11.57
Instance2664.5	220467.65	05:27:06	11.23
Instance2664.6	220451.65	05:16:25	11.61
Instance2664.7	220465.65	05:28:01	11.20
Instance2664.8	220461.65	05:16:41	11.60
Instance2664.9	220467.65	05:26:41	11.25
Instance2664.10	220459.65	05:15:52	11.63
Instance2664.11	220457.65	05:27:07	11.23
Instance2664.12	220475.65	05:16:16	11.62

Jetstress System Parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.020	0.000	85.725	0.000	(n/a)
Database (t:\sgdb2)	0.010	0.000	87.097	0.002	(n/a)
Database (s:\sgdb3)	0.011	0.000	87.145	0.002	(n/a)
Database (t:\sgdb4)	0.010	0.000	87.118	0.002	(n/a)
Database (s:\sgdb5)	0.011	0.000	87.117	0.002	(n/a)
Database (t:\sgdb6)	0.010	0.001	87.076	0.002	(n/a)
Database (s:\sgdb7)	0.011	0.000	87.115	0.002	(n/a)
Database (t:\sgdb8)	0.010	0.000	87.087	0.002	(n/a)
Database (s:\sgdb9)	0.011	0.000	87.112	0.002	(n/a)
Database (t:\sgdb10)	0.010	0.001	87.079	0.002	(n/a)
Database (s:\sgdb11)	0.011	0.000	87.117	0.002	(n/a)
Database (t:\sgdb12)	0.010	0.001	87.097	0.002	(n/a)
Log (t:\sglg1)	0.000	0.000	0.000	0.000	6.095
Log (s:\sglg2)	0.000	0.001	0.000	0.002	15.441
Log (t:\sglg3)	0.000	0.000	0.000	0.002	22.442
Log (s:\sglg4)	0.000	0.001	0.000	0.002	21.714
Log (t:\sglg5)	0.000	0.000	0.000	0.002	16.508
Log (s:\sglg6)	0.000	0.001	0.000	0.002	21.871
Log (t:\sglg7)	0.000	0.000	0.000	0.002	21.181
Log (s:\sglg8)	0.000	0.001	0.000	0.002	22.349
Log (t:\sglg9)	0.000	0.000	0.000	0.002	16.508
Log (s:\sglg10)	0.000	0.001	0.000	0.002	21.418
Log (t:\sglg11)	0.000	0.000	0.000	0.002	16.508
Log (s:\sglg12)	0.000	0.001	0.000	0.002	21.181

Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	1.976	0.767	2.920
Available MBytes	31310.193	31302.000	31333.000
Free System Page Table Entries	16752938.187	16752930.000	16753120.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	69987779.899	69959680.000	70209536.000
Pool Paged Bytes	54585980.006	53800960.000	55156736.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log

7/29/2008 8:18:07 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\109t2ss.xml"

7/29/2008 8:18:07 PM -- Jetstress testing begins ...

7/29/2008 8:18:07 PM -- Prepare testing begins ...

7/29/2008 8:18:20 PM -- Attaching databases ...

7/29/2008 8:18:20 PM -- Prepare testing ends.

7/29/2008 8:18:34 PM -- Performance logging begins (interval: 30000 ms).

7/29/2008 8:18:34 PM -- Streaming backup databases ...

7/30/2008 1:55:30 AM -- Performance logging ends.

7/30/2008 1:55:30 AM -- Instance2664.1 (100% processed), Instance2664.2 (100% processed), Instance2664.3 (100% processed), Instance2664.4 (100% processed), Instance2664.5 (100% processed), Instance2664.6 (100% processed), Instance2664.7 (100% processed), Instance2664.8 (100% processed), Instance2664.9 (100% processed), Instance2664.10 (100% processed), Instance2664.11 (100% processed), and Instance2664.12 (100% processed)

7/30/2008 1:55:30 AM -- [C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\StreamingBackup 2008 7 29 20 18 20.blg](#) has 673 samples.

7/30/2008 1:55:30 AM -- Creating test report ...

Performance test result report - Server 2

Test summary

Overall Test Result	Pass
Machine Name	EXN2-CX4ESRP
Test Description	
Test Start Time	6/28/2008 12:20:56 PM
Test End Time	6/28/2008 2:27:32 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_22.blg

Database sizing and throughput

Achieved I/O per Second	3116.949
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762572234752
Final database size	2773904719872
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.008	134.265	126.271	(n/a)
Database (t:\sgdb2)	0.014	0.007	134.447	126.463	(n/a)
Database (s:\sgdb3)	0.015	0.008	133.432	125.191	(n/a)
Database (t:\sgdb4)	0.015	0.008	134.808	126.338	(n/a)
Database (s:\sgdb5)	0.015	0.008	132.971	123.456	(n/a)
Database (t:\sgdb6)	0.014	0.008	133.842	127.436	(n/a)
Database (s:\sgdb7)	0.014	0.008	134.174	126.465	(n/a)
Database (t:\sgdb8)	0.015	0.007	133.953	126.231	(n/a)
Database (s:\sgdb9)	0.015	0.008	134.767	126.127	(n/a)
Database (t:\sgdb10)	0.014	0.007	133.436	125.507	(n/a)
Database (s:\sgdb11)	0.015	0.008	134.551	125.647	(n/a)
Database (t:\sgdb12)	0.015	0.008	132.874	124.294	(n/a)
Log (t:\sglg1)	0.000	0.003	0.000	75.218	4723.559
Log (s:\sglg2)	0.000	0.003	0.000	74.471	4868.598
Log (t:\sglg3)	0.000	0.003	0.000	75.187	4762.151
Log (s:\sglg4)	0.000	0.003	0.000	74.999	4823.329

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.003	0.000	74.736	4725.744
Log (s:\sglg6)	0.000	0.003	0.000	74.976	4825.109
Log (t:\sglg7)	0.000	0.003	0.000	75.384	4729.776
Log (s:\sglg8)	0.000	0.003	0.000	74.836	4765.772
Log (t:\sglg9)	0.000	0.003	0.000	76.074	4716.976
Log (s:\sglg10)	0.000	0.003	0.000	74.136	4827.203
Log (t:\sglg11)	0.000	0.003	0.000	75.567	4767.857
Log (s:\sglg12)	0.000	0.003	0.000	74.176	4811.735

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.566	2.009	6.397
Available MBytes	28143.531	28129.000	28385.000
Free System Page Table Entries	16752710.000	16752710.000	16752710.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	80729070.933	80089088.000	81457152.000
Pool Paged Bytes	48952789.333	48881664.000	49606656.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 12:20:56 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\109t2ss.xml"

6/28/2008 12:20:56 PM -- Jetstress testing begins ...

6/28/2008 12:20:56 PM -- Prepare testing begins ...

6/28/2008 12:21:09 PM -- Attaching databases ...

6/28/2008 12:21:09 PM -- Prepare testing ends.

6/28/2008 12:21:09 PM -- Dispatching transactions begins ...

6/28/2008 12:21:09 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 12:21:09 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 12:21:22 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 12:21:22 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 12:21:23 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 12:21:23 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 12:21:23 PM -- Attaining prerequisites:

6/28/2008 12:27:28 PM -- \MSExchange Database(JetstressCmd)\Database Cache Size, Last: 2903679000.0 (lower bound: 2899103000.0, upper bound: none)

6/28/2008 2:27:30 PM -- Performance logging ends.

6/28/2008 2:27:30 PM -- JetInterop batch transaction stats: 29959, 30110, 29788, 30120, 29751, 29906, 29974, 29888, 30012, 29792, 30169, and 29784.

6/28/2008 2:27:30 PM -- Dispatching transactions ends.

6/28/2008 2:27:30 PM -- Shutting down databases ...

6/28/2008 2:27:32 PM -- Instance1900.1 (complete), Instance1900.2 (complete), Instance1900.3 (complete), Instance1900.4 (complete), Instance1900.5 (complete), Instance1900.6 (complete), Instance1900.7 (complete), Instance1900.8 (complete), Instance1900.9 (complete), Instance1900.10 (complete), Instance1900.11 (complete), and Instance1900.12 (complete)

6/28/2008 2:27:32 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_22.blg has 504 samples.

6/28/2008 2:27:32 PM -- Creating test report ...

6/28/2008 2:27:40 PM -- Volume s:\sgdb1 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume t:\sgdb2 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume s:\sgdb3 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume t:\sgdb4 has 0.0154 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume s:\sgdb5 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume t:\sgdb6 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume s:\sgdb7 has 0.0144 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume t:\sgdb8 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume s:\sgdb9 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume t:\sgdb10 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume s:\sgdb11 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:40 PM -- Volume t:\sgdb12 has 0.0150 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume t:\sglg1 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume s:\sglg2 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume t:\sglg3 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume s:\sglg4 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume t:\sglg5 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume s:\sglg6 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume t:\sglg7 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume s:\sglg8 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume t:\sglg9 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume s:\sglg10 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume t:\sglg11 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Volume s:\sglg12 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:40 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:40 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 2:27:40 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 2:27:40 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour
performance\Performance_2008_6_28_12_21_22.xml has 479 samples queried.

Soft Recovery Test Result Report - Microsoft Exchange Server Jetstress - Server 2

Soft Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance2548.1	505	810.812384
Instance2548.2	506	811.8124224
Instance2548.3	514	813.5624896
Instance2548.4	503	812.8124608
Instance2548.5	512	813.0624704
Instance2548.6	518	815.5625664
Instance2548.7	500	811.8124224
Instance2548.8	522	822.5628352
Instance2548.9	503	812.3124416
Instance2548.10	506	812.5624512
Instance2548.11	501	803.54648
Instance2548.12	513	814.562528

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.132	0.020	299.312	6.216	(n/a)
Database (t:\sgdb2)	0.133	0.020	297.822	6.233	(n/a)
Database (s:\sgdb3)	0.129	0.020	298.798	6.320	(n/a)
Database (t:\sgdb4)	0.142	0.021	297.590	6.193	(n/a)
Database (s:\sgdb5)	0.128	0.020	298.888	6.301	(n/a)
Database (t:\sgdb6)	0.123	0.020	301.750	6.357	(n/a)
Database (s:\sgdb7)	0.129	0.020	297.343	6.163	(n/a)
Database (t:\sgdb8)	0.136	0.018	300.401	6.386	(n/a)
Database (s:\sgdb9)	0.128	0.020	297.908	6.196	(n/a)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (t:\sgdb10)	0.129	0.019	296.602	6.226	(n/a)
Database (s:\sgdb11)	0.133	0.020	293.040	6.182	(n/a)
Database (t:\sgdb12)	0.134	0.019	302.176	6.300	(n/a)
Log (t:\sglg1)	0.007	0.022	20.368	1.064	3973.193
Log (s:\sglg2)	0.008	0.026	20.404	1.067	4074.772
Log (t:\sglg3)	0.008	0.016	20.729	1.051	3960.263
Log (s:\sglg4)	0.007	0.014	20.285	1.055	3964.722
Log (t:\sglg5)	0.007	0.022	20.646	1.053	3917.142
Log (s:\sglg6)	0.007	0.015	20.888	1.066	3959.912
Log (t:\sglg7)	0.008	0.013	20.163	1.069	3870.341
Log (s:\sglg8)	0.008	0.024	21.053	1.055	3966.314
Log (t:\sglg9)	0.007	0.020	20.283	1.062	4075.865
Log (s:\sglg10)	0.008	0.015	20.408	1.045	3932.369
Log (t:\sglg11)	0.008	0.015	20.209	1.064	4054.275
Log (s:\sglg12)	0.007	0.019	20.688	1.061	3992.663

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	16.289	2.494	36.533
Available MBytes	28497.683	28105.000	31248.000
Free System Page Table Entries	16752260.000	16752260.000	16752260.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	88600536.039	79843328.000	89747456.000
Pool Paged Bytes	54229801.210	53760000.000	54702080.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 3:40:42 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\109t2ss.xml"

6/28/2008 3:40:42 PM -- Jetstress testing begins ...

6/28/2008 3:40:42 PM -- Prepare testing begins ...

6/28/2008 3:40:54 PM -- Attaching databases ...

6/28/2008 3:40:54 PM -- Prepare testing ends.

6/28/2008 3:40:54 PM -- Dispatching transactions begins ...

6/28/2008 3:40:54 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 3:40:54 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 3:41:07 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 3:41:07 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 3:41:08 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 3:41:08 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 3:41:08 PM -- Generating log files ...

6/28/2008 4:37:42 PM -- t:\sglg1 (101.2% generated), s:\sglg2 (101.4% generated), t:\sglg3 (103.0% generated), s:\sglg4 (100.8% generated), t:\sglg5 (102.4% generated), s:\sglg6 (103.8% generated), t:\sglg7 (100.2% generated), s:\sglg8 (104.6% generated), t:\sglg9 (100.8% generated), s:\sglg10 (101.4% generated), t:\sglg11 (100.4% generated), and s:\sglg12 (102.8% generated)

6/28/2008 4:37:43 PM -- Performance logging ends.

6/28/2008 4:37:43 PM -- JetInterop batch transaction stats: 12986, 13001, 13036, 12923, 13086, 13136, 12926, 13070, 12994, 12896, 12792, and 13065.

6/28/2008 4:37:44 PM -- Dispatching transactions ends.

6/28/2008 4:37:44 PM -- Shutting down databases ...

6/28/2008 4:37:46 PM -- Instance2548.1 (complete), Instance2548.2 (complete), Instance2548.3 (complete), Instance2548.4 (complete), Instance2548.5 (complete), Instance2548.6 (complete), Instance2548.7 (complete), Instance2548.8 (complete), Instance2548.9 (complete), Instance2548.10 (complete), Instance2548.11 (complete), and Instance2548.12 (complete)

6/28/2008 4:37:46 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_7.blg has 226 samples.

6/28/2008 4:37:46 PM -- Creating test report ...

6/28/2008 4:37:49 PM -- Volume s:\sgdb1 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume t:\sgdb2 has 0.0143 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume s:\sgdb3 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume t:\sgdb4 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume s:\sgdb5 has 0.0153 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume t:\sgdb6 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume s:\sgdb7 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume t:\sgdb8 has 0.0153 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume s:\sgdb9 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 4:37:49 PM -- Volume t:\sgdb10 has 0.0138 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume s:\sgdb11 has 0.0146 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume t:\sgdb12 has 0.0152 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume t:\sglg1 has 0.0032 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume t:\sglg1 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume s:\sglg2 has 0.0036 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume s:\sglg2 has 0.0026 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume t:\sglg3 has 0.0032 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume t:\sglg3 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume s:\sglg4 has 0.0036 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume s:\sglg4 has 0.0019 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume t:\sglg5 has 0.0032 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume t:\sglg5 has 0.0017 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume s:\sglg6 has 0.0036 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume s:\sglg6 has 0.0027 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume t:\sglg7 has 0.0033 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume t:\sglg7 has 0.0024 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume s:\sglg8 has 0.0036 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume s:\sglg8 has 0.0021 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume t:\sglg9 has 0.0032 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume t:\sglg9 has 0.0023 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume s:\sglg10 has 0.0036 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume s:\sglg10 has 0.0025 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume t:\sglg11 has 0.0032 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume t:\sglg11 has 0.0023 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Volume s:\sglg12 has 0.0036 for Avg. Disk sec/Write.
 6/28/2008 4:37:49 PM -- Volume s:\sglg12 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:37:49 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
 6/28/2008 4:37:49 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
 6/28/2008 4:37:49 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_7.xml has 225 samples queried.
 6/28/2008 4:37:49 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_7.html is saved.
 6/28/2008 4:37:50 PM -- Performance logging begins (interval: 4000 ms).
 6/28/2008 4:37:50 PM -- Recovering databases ...
 6/28/2008 4:51:33 PM -- Performance logging ends.
 6/28/2008 4:51:33 PM -- Instance2548.1 (810.812384), Instance2548.2 (811.8124224), Instance2548.3 (813.5624896), Instance2548.4 (812.8124608), Instance2548.5 (813.0624704), Instance2548.6 (815.5625664), Instance2548.7 (811.8124224), Instance2548.8 (822.5628352), Instance2548.9 (812.3124416), Instance2548.10 (812.5624512), Instance2548.11 (803.54648), and Instance2548.12 (814.562528)
 6/28/2008 4:51:33 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\SoftRecovery_2008_6_28_16_37_49.blg has 205 samples.

Microsoft Exchange Server 2007 Jetstress 24-hour stress - Server 2

Stress Test Result Report

Test summary

Overall Test Result	Pass
Machine Name	EXN2-CX4ESRP
Test Description	
Test Start Time	7/4/2008 12:13:40 PM
Test End Time	7/5/2008 12:19:58 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_6.blg

Database sizing and throughput

Achieved I/O per Second	3116.112
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762572234752
Final database size	2878162534400
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.007	139.923	119.734	(n/a)
Database (t:\sgdb2)	0.014	0.006	140.091	119.934	(n/a)
Database (s:\sgdb3)	0.014	0.007	140.088	120.074	(n/a)
Database (t:\sgdb4)	0.015	0.007	139.896	119.919	(n/a)
Database (s:\sgdb5)	0.015	0.007	139.918	119.711	(n/a)
Database (t:\sgdb6)	0.014	0.007	139.930	119.596	(n/a)
Database (s:\sgdb7)	0.014	0.007	140.200	119.443	(n/a)
Database (t:\sgdb8)	0.015	0.007	139.699	119.818	(n/a)
Database (s:\sgdb9)	0.015	0.007	139.904	119.322	(n/a)
Database (t:\sgdb10)	0.014	0.007	139.734	119.496	(n/a)
Database (s:\sgdb11)	0.014	0.007	140.333	120.043	(n/a)
Database (t:\sgdb12)	0.015	0.007	139.723	119.583	(n/a)
Log (t:\sglg1)	0.000	0.002	0.000	75.312	4574.673
Log (s:\sglg2)	0.000	0.003	0.000	74.749	4603.390
Log (t:\sglg3)	0.000	0.002	0.000	75.381	4559.145
Log (s:\sglg4)	0.000	0.003	0.000	75.107	4578.969

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.002	0.000	75.400	4580.803
Log (s:\sglg6)	0.000	0.003	0.000	74.868	4615.721
Log (t:\sglg7)	0.000	0.002	0.000	75.128	4564.582
Log (s:\sglg8)	0.000	0.003	0.000	75.349	4592.306
Log (t:\sglg9)	0.000	0.002	0.000	75.186	4567.137
Log (s:\sglg10)	0.000	0.003	0.000	74.615	4612.911
Log (t:\sglg11)	0.000	0.002	0.000	75.531	4568.825
Log (s:\sglg12)	0.000	0.003	0.000	75.031	4572.717

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.694	1.814	12.260
Available MBytes	28149.317	28132.000	28380.000
Free System Page Table Entries	16753196.993	16753190.000	16753330.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	76379896.706	71405568.000	77217792.000
Pool Paged Bytes	44752170.874	44281856.000	45350912.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

7/4/2008 12:13:40 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\109t2ss.xml"

7/4/2008 12:13:40 PM -- Jetstress testing begins ...

7/4/2008 12:13:40 PM -- Prepare testing begins ...

7/4/2008 12:13:53 PM -- Attaching databases ...

7/4/2008 12:13:53 PM -- Prepare testing ends.

7/4/2008 12:13:53 PM -- Dispatching transactions begins ...

7/4/2008 12:13:53 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

7/4/2008 12:13:53 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

7/4/2008 12:14:06 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1 seconds/read).

7/4/2008 12:14:06 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).

7/4/2008 12:14:07 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

7/4/2008 12:14:07 PM -- Performance logging begins (interval: 15000 ms).

7/4/2008 12:14:07 PM -- Attaining prerequisites:

7/4/2008 12:19:54 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2910306000.0 (lower bound: 2899103000.0, upper bound: none)

7/5/2008 12:19:56 PM -- Performance logging ends.

7/5/2008 12:19:56 PM -- JetInterop batch transaction stats: 332524, 332933, 331896, 331871, 332385, 332506, 332350, 332424, 332540, 332245, 333488, and 332124.

7/5/2008 12:19:56 PM -- Dispatching transactions ends.

7/5/2008 12:19:56 PM -- Shutting down databases ...

7/5/2008 12:19:58 PM -- Instance2716.1 (complete), Instance2716.2 (complete), Instance2716.3 (complete), Instance2716.4 (complete), Instance2716.5 (complete), Instance2716.6 (complete), Instance2716.7 (complete), Instance2716.8 (complete), Instance2716.9 (complete), Instance2716.10 (complete), Instance2716.11 (complete), and Instance2716.12 (complete)

7/5/2008 12:19:58 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_6.blg has 5779 samples.

7/5/2008 12:19:58 PM -- Creating test report ...

7/5/2008 12:21:53 PM -- Volume s:\sgdb1 has 0.0147 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sgdb2 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sgdb3 has 0.0144 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sgdb4 has 0.0150 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sgdb5 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sgdb6 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sgdb7 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sgdb9 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sgdb10 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sgdb11 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sgdb12 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sglg1 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:21:53 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sglg2 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:21:53 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sglg3 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:21:53 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sglg4 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:21:53 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume t:\sglg5 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:21:53 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:21:53 PM -- Volume s:\sglg6 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:21:53 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:21:53 PM -- Volume t:\sglg7 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:21:53 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:21:53 PM -- Volume s:\sglg8 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:21:53 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:21:53 PM -- Volume t:\sglg9 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:21:53 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:21:53 PM -- Volume s:\sglg10 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:21:53 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:21:53 PM -- Volume t:\sglg11 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:21:53 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:21:53 PM -- Volume s:\sglg12 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:21:53 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:21:53 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
7/5/2008 12:21:53 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
7/5/2008 12:21:53 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour
stress\Stress_2008_7_4_12_14_6.xml has 5755 samples queried.

Jetstress Streaming Backup Performance (no backup) - Server 2

Microsoft Exchange Server Jetstress Streaming backup Test Result Report

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance424.1	220469.65	05:25:54	11.27
Instance424.2	220469.65	05:16:55	11.59
Instance424.3	220461.65	05:28:03	11.20
Instance424.4	220481.65	05:17:02	11.59
Instance424.5	220463.65	05:27:00	11.24
Instance424.6	220457.65	05:16:46	11.60
Instance424.7	220477.65	05:27:53	11.21
Instance424.8	220461.65	05:16:53	11.59
Instance424.9	220475.65	05:26:29	11.25
Instance424.10	220473.65	05:16:21	11.62
Instance424.11	220461.65	05:27:34	11.22
Instance424.12	220467.65	05:16:39	11.60

Jetstress System Parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.011	0.001	89.667	0.002	(n/a)
Database (t:\sgdb2)	0.010	0.000	89.646	0.002	(n/a)
Database (s:\sgdb3)	0.011	0.000	89.204	0.000	(n/a)
Database (t:\sgdb4)	0.010	0.000	89.651	0.002	(n/a)
Database (s:\sgdb5)	0.011	0.001	89.664	0.002	(n/a)
Database (t:\sgdb6)	0.010	0.000	89.639	0.002	(n/a)
Database (s:\sgdb7)	0.011	0.000	89.432	0.000	(n/a)
Database (t:\sgdb8)	0.010	6.22639070918887E-05	89.644	0.002	(n/a)
Database (s:\sgdb9)	0.011	0.001	89.668	0.002	(n/a)
Database (t:\sgdb10)	0.010	0.001	89.646	0.002	(n/a)
Database (s:\sgdb11)	0.011	0.000	89.663	0.000	(n/a)
Database (t:\sgdb12)	0.010	0.000	89.645	0.002	(n/a)
Log (t:\sglg1)	0.000	0.000	0.000	0.002	15.706
Log (s:\sglg2)	0.000	0.001	0.000	0.002	21.703
Log (t:\sglg3)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg4)	0.000	0.001	0.000	0.002	27.727
Log (t:\sglg5)	0.000	0.000	0.000	0.002	15.501
Log (s:\sglg6)	0.000	0.001	0.000	0.002	22.120
Log (t:\sglg7)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg8)	0.000	0.001	0.000	0.002	22.348
Log (t:\sglg9)	0.000	0.000	0.000	0.002	15.340
Log (s:\sglg10)	0.000	0.001	0.000	0.002	22.013
Log (t:\sglg11)	0.000	0.000	0.000	0.000	6.263

Log (s:\sglg12)	0.000	0.001	0.000	0.002	23.225
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Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	1.943	0.781	2.629
Available MBytes	31335.553	31329.000	31338.000
Free System Page Table Entries	16753260.000	16753260.000	16753260.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	64833182.681	64790528.000	65155072.000
Pool Paged Bytes	49991436.116	49594368.000	50540544.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log

7/29/2008 8:18:15 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\109t2ss.xml"

7/29/2008 8:18:15 PM -- Jetstress testing begins ...

7/29/2008 8:18:16 PM -- Prepare testing begins ...

7/29/2008 8:18:28 PM -- Attaching databases ...

7/29/2008 8:18:28 PM -- Prepare testing ends.

7/29/2008 8:18:41 PM -- Performance logging begins (interval: 30000 ms).

7/29/2008 8:18:41 PM -- Streaming backup databases ...

7/30/2008 1:46:46 AM -- Performance logging ends.

7/30/2008 1:46:46 AM -- Instance424.1 (100% processed), Instance424.2 (100% processed), Instance424.3 (100% processed), Instance424.4 (100% processed), Instance424.5 (100% processed), Instance424.6 (100% processed), Instance424.7 (100% processed), Instance424.8 (100% processed), Instance424.9 (100% processed), Instance424.10 (100% processed), Instance424.11 (100% processed), and Instance424.12 (100% processed)

7/30/2008 1:46:46 AM -- [C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\StreamingBackup 2008 7 29 20 18 28.blg](#) has 655 samples.

7/30/2008 1:46:46 AM -- Creating test report ...

Performance test result report - Server 3

Test summary

Overall Test Result	Pass
Machine Name	EXN3-CX4ESRP
Test Description	
Test Start Time	6/28/2008 12:20:59 PM
Test End Time	6/28/2008 2:27:31 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_25.blg

Database sizing and throughput

Achieved I/O per Second	3117.803
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2773881651200
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.008	134.521	125.522	(n/a)
Database (t:\sgdb2)	0.014	0.007	133.864	125.765	(n/a)
Database (s:\sgdb3)	0.015	0.008	132.281	123.933	(n/a)
Database (t:\sgdb4)	0.015	0.007	135.162	126.875	(n/a)
Database (s:\sgdb5)	0.015	0.008	134.147	125.485	(n/a)
Database (t:\sgdb6)	0.014	0.007	133.984	125.533	(n/a)
Database (s:\sgdb7)	0.015	0.008	134.467	126.689	(n/a)
Database (t:\sgdb8)	0.015	0.007	133.938	125.887	(n/a)
Database (s:\sgdb9)	0.015	0.008	133.932	125.630	(n/a)
Database (t:\sgdb10)	0.014	0.007	134.896	127.574	(n/a)
Database (s:\sgdb11)	0.014	0.008	134.256	125.953	(n/a)
Database (t:\sgdb12)	0.015	0.007	132.939	124.569	(n/a)
Log (t:\sglg1)	0.000	0.003	0.000	75.195	4724.585
Log (s:\sglg2)	0.000	0.003	0.000	73.784	4785.425
Log (t:\sglg3)	0.000	0.003	0.000	74.632	4763.846

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (s:\sglg4)	0.000	0.003	0.000	74.596	4779.110
Log (t:\sglg5)	0.000	0.003	0.000	75.599	4748.495
Log (s:\sglg6)	0.000	0.003	0.000	74.153	4816.595
Log (t:\sglg7)	0.000	0.003	0.000	76.173	4737.686
Log (s:\sglg8)	0.000	0.003	0.000	74.278	4827.870
Log (t:\sglg9)	0.000	0.003	0.000	75.618	4747.362
Log (s:\sglg10)	0.000	0.003	0.000	74.686	4836.640
Log (t:\sglg11)	0.000	0.003	0.000	75.723	4750.985
Log (s:\sglg12)	0.000	0.003	0.000	73.840	4811.278

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.613	2.098	5.327
Available MBytes	28131.317	28115.000	28350.000
Free System Page Table Entries	16752770.000	16752770.000	16752770.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	86435737.600	85929984.000	86945792.000
Pool Paged Bytes	48484087.467	48406528.000	49152000.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 12:20:59 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\109t2ss.xml"

6/28/2008 12:20:59 PM -- Jetstress testing begins ...

6/28/2008 12:20:59 PM -- Prepare testing begins ...

6/28/2008 12:21:11 PM -- Attaching databases ...

6/28/2008 12:21:11 PM -- Prepare testing ends.

6/28/2008 12:21:11 PM -- Dispatching transactions begins ...

6/28/2008 12:21:11 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 12:21:11 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 12:21:25 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 12:21:25 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 12:21:26 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 12:21:26 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 12:21:26 PM -- Attaining prerequisites:

6/28/2008 12:27:27 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2910077000.0 (lower bound: 2899103000.0, upper bound: none)

6/28/2008 2:27:29 PM -- Performance logging ends.

6/28/2008 2:27:29 PM -- JetInterop batch transaction stats: 30024, 29828, 29810, 29982, 29959, 29925, 30148, 29973, 30001, 30287, 30101, and 29784.

6/28/2008 2:27:29 PM -- Dispatching transactions ends.

6/28/2008 2:27:29 PM -- Shutting down databases ...

6/28/2008 2:27:31 PM -- Instance2516.1 (complete), Instance2516.2 (complete), Instance2516.3 (complete), Instance2516.4 (complete), Instance2516.5 (complete), Instance2516.6 (complete), Instance2516.7 (complete), Instance2516.8 (complete), Instance2516.9 (complete), Instance2516.10 (complete), Instance2516.11 (complete), and Instance2516.12 (complete)

6/28/2008 2:27:31 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_25.blg has 504 samples.

6/28/2008 2:27:31 PM -- Creating test report ...

6/28/2008 2:27:38 PM -- Volume s:\sgdb1 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sgdb2 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume s:\sgdb3 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sgdb4 has 0.0154 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume s:\sgdb5 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sgdb6 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume s:\sgdb7 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sgdb8 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume s:\sgdb9 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sgdb10 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume s:\sgdb11 has 0.0145 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sgdb12 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sglg1 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:38 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume s:\sglg2 has 0.0033 for Avg. Disk sec/Write.

6/28/2008 2:27:38 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sglg3 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:38 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume s:\sglg4 has 0.0033 for Avg. Disk sec/Write.

6/28/2008 2:27:38 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:38 PM -- Volume t:\sglg5 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:38 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:38 PM -- Volume s:\sglg6 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:38 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:38 PM -- Volume t:\sglg7 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:38 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:38 PM -- Volume s:\sglg8 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:38 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:39 PM -- Volume t:\sglg9 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:39 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:39 PM -- Volume s:\sglg10 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:39 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:39 PM -- Volume t:\sglg11 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:39 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:39 PM -- Volume s:\sglg12 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:39 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:39 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 2:27:39 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 2:27:39 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour
performance\Performance_2008_6_28_12_21_25.xml has 479 samples queried.

Soft Recovery Test Result Report - Microsoft Exchange Server Jetstress - Server 3

Soft Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance1172.1	506	847.0318877
Instance1172.2	505	839.2817389
Instance1172.3	500	837.2817005
Instance1172.4	509	845.7818637
Instance1172.5	501	846.2818733
Instance1172.6	506	846.2818733
Instance1172.7	510	847.2818925
Instance1172.8	511	846.7818829
Instance1172.9	509	849.2819309
Instance1172.10	500	837.5317053
Instance1172.11	503	844.5318397
Instance1172.12	503	849.2819309

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.125	0.022	290.329	6.038	(n/a)
Database (t:\sgdb2)	0.124	0.020	288.661	6.065	(n/a)
Database (s:\sgdb3)	0.134	0.023	285.221	6.007	(n/a)
Database (t:\sgdb4)	0.134	0.021	288.219	6.068	(n/a)
Database (s:\sgdb5)	0.131	0.020	290.270	6.013	(n/a)
Database (t:\sgdb6)	0.130	0.020	290.939	6.064	(n/a)
Database (s:\sgdb7)	0.131	0.022	290.464	6.056	(n/a)
Database (t:\sgdb8)	0.133	0.020	288.161	6.087	(n/a)
Database (s:\sgdb9)	0.129	0.022	284.383	6.004	(n/a)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (t:\sgdb10)	0.127	0.020	287.021	5.992	(n/a)
Database (s:\sgdb11)	0.130	0.020	284.885	6.053	(n/a)
Database (t:\sgdb12)	0.138	0.022	284.463	5.937	(n/a)
Log (t:\sglg1)	0.007	0.015	19.788	1.008	3899.424
Log (s:\sglg2)	0.008	0.019	19.790	1.062	4054.933
Log (t:\sglg3)	0.007	0.020	19.598	1.055	4126.693
Log (s:\sglg4)	0.009	0.022	19.901	1.041	4100.511
Log (t:\sglg5)	0.007	0.019	19.635	1.019	3889.018
Log (s:\sglg6)	0.008	0.020	19.831	1.045	4052.677
Log (t:\sglg7)	0.007	0.018	19.913	1.000	3939.699
Log (s:\sglg8)	0.008	0.017	19.985	1.014	4001.124
Log (t:\sglg9)	0.007	0.018	19.714	1.010	3999.196
Log (s:\sglg10)	0.008	0.021	19.592	1.049	4168.408
Log (t:\sglg11)	0.008	0.016	19.713	1.031	3896.626
Log (s:\sglg12)	0.008	0.021	19.481	1.012	3908.505

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	14.985	5.595	32.151
Available MBytes	28478.900	28128.000	31262.000
Free System Page Table Entries	16752770.000	16752770.000	16752770.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	92722704.986	85532672.000	93483008.000
Pool Paged Bytes	49273928.796	48803840.000	49725440.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 3:40:44 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\109t2ss.xml"

6/28/2008 3:40:44 PM -- Jetstress testing begins ...

6/28/2008 3:40:44 PM -- Prepare testing begins ...

6/28/2008 3:40:56 PM -- Attaching databases ...

6/28/2008 3:40:56 PM -- Prepare testing ends.

6/28/2008 3:40:56 PM -- Dispatching transactions begins ...

6/28/2008 3:40:56 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 3:40:56 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 3:41:09 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 3:41:09 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 3:41:10 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 3:41:10 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 3:41:10 PM -- Generating log files ...

6/28/2008 4:36:16 PM -- t:\sglg1 (101.4% generated), s:\sglg2 (101.2% generated), t:\sglg3 (100.2% generated), s:\sglg4 (102.0% generated), t:\sglg5 (100.4% generated), s:\sglg6 (101.4% generated), t:\sglg7 (102.2% generated), s:\sglg8 (102.4% generated), t:\sglg9 (102.0% generated), s:\sglg10 (100.2% generated), t:\sglg11 (100.8% generated), and s:\sglg12 (100.8% generated)

6/28/2008 4:36:17 PM -- Performance logging ends.

6/28/2008 4:36:17 PM -- JetInterop batch transaction stats: 12985, 12960, 12858, 13038, 12858, 12822, 13064, 12860, 12961, 12847, 12983, and 12900.

6/28/2008 4:36:17 PM -- Dispatching transactions ends.

6/28/2008 4:36:17 PM -- Shutting down databases ...

6/28/2008 4:36:20 PM -- Instance1172.1 (complete), Instance1172.2 (complete), Instance1172.3 (complete), Instance1172.4 (complete), Instance1172.5 (complete), Instance1172.6 (complete), Instance1172.7 (complete), Instance1172.8 (complete), Instance1172.9 (complete), Instance1172.10 (complete), Instance1172.11 (complete), and Instance1172.12 (complete)

6/28/2008 4:36:20 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_9.blg has 220 samples.

6/28/2008 4:36:20 PM -- Creating test report ...

6/28/2008 4:36:22 PM -- Volume s:\sgdb1 has 0.0153 for Avg. Disk sec/Read.

6/28/2008 4:36:22 PM -- Volume t:\sgdb2 has 0.0142 for Avg. Disk sec/Read.

6/28/2008 4:36:22 PM -- Volume s:\sgdb3 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 4:36:22 PM -- Volume t:\sgdb4 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 4:36:22 PM -- Volume s:\sgdb5 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 4:36:23 PM -- Volume t:\sgdb6 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 4:36:23 PM -- Volume s:\sgdb7 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 4:36:23 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 4:36:23 PM -- Volume s:\sgdb9 has 0.0153 for Avg. Disk sec/Read.

6/28/2008 4:36:23 PM -- Volume t:\sgdb10 has 0.0142 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume s:\sgdb11 has 0.0147 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume t:\sgdb12 has 0.0153 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume t:\sglg1 has 0.0032 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume t:\sglg1 has 0.0023 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume s:\sglg2 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume s:\sglg2 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume t:\sglg3 has 0.0032 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume t:\sglg3 has 0.0019 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume s:\sglg4 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume s:\sglg4 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume t:\sglg5 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume t:\sglg5 has 0.0023 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume s:\sglg6 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume s:\sglg6 has 0.0024 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume t:\sglg7 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume t:\sglg7 has 0.0025 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume s:\sglg8 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume s:\sglg8 has 0.0027 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume t:\sglg9 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume t:\sglg9 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume s:\sglg10 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume s:\sglg10 has 0.0025 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume t:\sglg11 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume t:\sglg11 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Volume s:\sglg12 has 0.0034 for Avg. Disk sec/Write.
6/28/2008 4:36:23 PM -- Volume s:\sglg12 has 0.0024 for Avg. Disk sec/Read.
6/28/2008 4:36:23 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 4:36:23 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 4:36:23 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\Performance_2008_6_28_15_41_9.xml has 219 samples queried.
6/28/2008 4:36:23 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\Performance_2008_6_28_15_41_9.html is saved.
6/28/2008 4:36:24 PM -- Performance logging begins (interval: 4000 ms).
6/28/2008 4:36:24 PM -- Recovering databases ...
6/28/2008 4:50:34 PM -- Performance logging ends.
6/28/2008 4:50:34 PM -- Instance1172.1 (847.0318877), Instance1172.2 (839.2817389), Instance1172.3
(837.2817005), Instance1172.4 (845.7818637), Instance1172.5 (846.2818733), Instance1172.6
(846.2818733), Instance1172.7 (847.2818925), Instance1172.8 (846.7818829), Instance1172.9
(849.2819309), Instance1172.10 (837.5317053), Instance1172.11 (844.5318397), and Instance1172.12
(849.2819309)
6/28/2008 4:50:34 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\SoftRecovery_2008_6_28_16_36_23.blg has 211 samples.

Stress Test Result Report - Server 3

Test summary

Overall Test Result	Pass
Machine Name	EXN3-CX4ESRP
Test Description	
Test Start Time	7/4/2008 12:13:56 PM
Test End Time	7/5/2008 12:20:10 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_21.blg

Database sizing and throughput

Achieved I/O per Second	3130.668
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2878909120512
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.007	140.434	120.649	(n/a)
Database (t:\sgdb2)	0.014	0.006	140.139	120.538	(n/a)
Database (s:\sgdb3)	0.014	0.007	140.358	120.650	(n/a)
Database (t:\sgdb4)	0.015	0.006	140.400	120.706	(n/a)
Database (s:\sgdb5)	0.015	0.007	140.273	120.015	(n/a)
Database (t:\sgdb6)	0.014	0.006	140.215	120.255	(n/a)
Database (s:\sgdb7)	0.014	0.007	140.463	120.532	(n/a)
Database (t:\sgdb8)	0.015	0.006	140.448	121.037	(n/a)
Database (s:\sgdb9)	0.014	0.007	140.584	120.522	(n/a)
Database (t:\sgdb10)	0.014	0.007	140.561	120.653	(n/a)
Database (s:\sgdb11)	0.014	0.007	140.322	120.351	(n/a)
Database (t:\sgdb12)	0.015	0.007	140.196	120.366	(n/a)
Log (t:\sglg1)	0.000	0.002	0.000	75.698	4572.152
Log (s:\sglg2)	0.000	0.003	0.000	75.126	4607.303
Log (t:\sglg3)	0.000	0.002	0.000	75.874	4571.937
Log (s:\sglg4)	0.000	0.003	0.000	75.536	4563.298

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.002	0.000	75.602	4578.777
Log (s:\sglg6)	0.000	0.003	0.000	75.157	4600.472
Log (t:\sglg7)	0.000	0.002	0.000	75.867	4575.186
Log (s:\sglg8)	0.000	0.003	0.000	75.827	4582.448
Log (t:\sglg9)	0.000	0.002	0.000	75.782	4579.272
Log (s:\sglg10)	0.000	0.003	0.000	75.174	4610.631
Log (t:\sglg11)	0.000	0.002	0.000	75.760	4574.194
Log (s:\sglg12)	0.000	0.003	0.000	75.403	4578.872

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.723	1.721	9.533
Available MBytes	28142.016	28121.000	28476.000
Free System Page Table Entries	16753242.982	16753210.000	16753350.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	76317514.248	72929280.000	77115392.000
Pool Paged Bytes	44946786.612	44474368.000	45539328.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

7/4/2008 12:13:56 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\109t2ss.xml"

7/4/2008 12:13:56 PM -- Jetstress testing begins ...

7/4/2008 12:13:56 PM -- Prepare testing begins ...

7/4/2008 12:14:08 PM -- Attaching databases ...

7/4/2008 12:14:08 PM -- Prepare testing ends.

7/4/2008 12:14:08 PM -- Dispatching transactions begins ...

7/4/2008 12:14:08 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

7/4/2008 12:14:08 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

7/4/2008 12:14:21 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1 seconds/read).

7/4/2008 12:14:21 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).

7/4/2008 12:14:22 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

7/4/2008 12:14:22 PM -- Performance logging begins (interval: 15000 ms).

7/4/2008 12:14:22 PM -- Attaining prerequisites:

7/4/2008 12:20:06 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2902245000.0 (lower bound: 2899103000.0, upper bound: none)

7/5/2008 12:20:08 PM -- Performance logging ends.

7/5/2008 12:20:08 PM -- JetInterop batch transaction stats: 334480, 334005, 334165, 334174, 334306, 333463, 335231, 335284, 334731, 334946, 334784, and 334018.

7/5/2008 12:20:08 PM -- Dispatching transactions ends.

7/5/2008 12:20:08 PM -- Shutting down databases ...

7/5/2008 12:20:10 PM -- Instance2688.1 (complete), Instance2688.2 (complete), Instance2688.3 (complete), Instance2688.4 (complete), Instance2688.5 (complete), Instance2688.6 (complete), Instance2688.7 (complete), Instance2688.8 (complete), Instance2688.9 (complete), Instance2688.10 (complete), Instance2688.11 (complete), and Instance2688.12 (complete)

7/5/2008 12:20:10 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_21.blg has 5780 samples.

7/5/2008 12:20:10 PM -- Creating test report ...

7/5/2008 12:22:04 PM -- Volume s:\sgdb1 has 0.0147 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sgdb2 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sgdb3 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sgdb4 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sgdb5 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sgdb6 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sgdb7 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sgdb9 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sgdb10 has 0.0136 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sgdb11 has 0.0142 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sgdb12 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sglg1 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:04 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sglg2 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:04 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sglg3 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:04 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sglg4 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:04 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sglg5 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:04 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume s:\sglg6 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:04 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:04 PM -- Volume t:\sglg7 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:04 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:04 PM -- Volume s:\sglg8 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:04 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:04 PM -- Volume t:\sglg9 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:04 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:04 PM -- Volume s:\sglg10 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:04 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:04 PM -- Volume t:\sglg11 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:04 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:04 PM -- Volume s:\sglg12 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:04 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:04 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
7/5/2008 12:22:04 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
7/5/2008 12:22:04 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour
stress\Stress_2008_7_4_12_14_21.xml has 5757 samples queried.

Jetstress Streaming Backup Performance (no backup) - Server 3

Microsoft Exchange Server Jetstress Streaming backup Test Result Report

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance2840.1	220469.65	05:25:58	11.27
Instance2840.2	220463.65	05:16:56	11.59
Instance2840.3	220473.65	05:28:01	11.20
Instance2840.4	220479.65	05:17:00	11.59
Instance2840.5	220455.65	05:27:04	11.23
Instance2840.6	220473.65	05:16:45	11.60
Instance2840.7	220459.65	05:27:54	11.21
Instance2840.8	220483.65	05:16:56	11.59
Instance2840.9	220473.65	05:26:36	11.25
Instance2840.10	220459.65	05:16:23	11.61
Instance2840.11	220481.65	05:27:36	11.22
Instance2840.12	220467.65	05:16:46	11.60

Jetstress System Parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.011	0.000	89.697	0.002	(n/a)
Database (t:\sgdb2)	0.010	2.66420847782509E-05	89.677	0.002	(n/a)
Database (s:\sgdb3)	0.011	0.000	89.230	0.000	(n/a)
Database (t:\sgdb4)	0.010	0.000	89.686	0.002	(n/a)
Database (s:\sgdb5)	0.011	0.000	89.691	0.002	(n/a)
Database (t:\sgdb6)	0.010	0.000	89.682	0.002	(n/a)
Database (s:\sgdb7)	0.011	0.000	89.443	0.000	(n/a)
Database (t:\sgdb8)	0.010	2.48094172043955E-05	89.685	0.002	(n/a)
Database (s:\sgdb9)	0.011	0.000	89.698	0.002	(n/a)
Database (t:\sgdb10)	0.010	0.000	89.675	0.002	(n/a)
Database (s:\sgdb11)	0.011	0.000	89.694	0.000	(n/a)
Database (t:\sgdb12)	0.010	0.000	89.680	0.002	(n/a)
Log (t:\sglg1)	0.000	0.000	0.000	0.002	15.501
Log (s:\sglg2)	0.000	0.001	0.000	0.002	22.038
Log (t:\sglg3)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg4)	0.000	0.001	0.000	0.002	21.764
Log (t:\sglg5)	0.000	0.000	0.000	0.002	15.136
Log (s:\sglg6)	0.000	0.001	0.000	0.002	23.059
Log (t:\sglg7)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg8)	0.000	0.001	0.000	0.002	22.013
Log (t:\sglg9)	0.000	0.000	0.000	0.002	10.699
Log (s:\sglg10)	0.000	0.001	0.000	0.002	22.013
Log (t:\sglg11)	0.000	0.000	0.000	0.000	6.263

Log (s:\sglg12)	0.000	0.001	0.000	0.002	22.964
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Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	1.957	0.848	2.657
Available MBytes	31333.238	31325.000	31337.000
Free System Page Table Entries	16753410.000	16753410.000	16753410.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	65074877.948	65040384.000	65363968.000
Pool Paged Bytes	50395739.456	49975296.000	50937856.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log

7/29/2008 8:18:18 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\109t2ss.xml"

7/29/2008 8:18:19 PM -- Jetstress testing begins ...

7/29/2008 8:18:19 PM -- Prepare testing begins ...

7/29/2008 8:18:32 PM -- Attaching databases ...

7/29/2008 8:18:32 PM -- Prepare testing ends.

7/29/2008 8:18:45 PM -- Performance logging begins (interval: 30000 ms).

7/29/2008 8:18:45 PM -- Streaming backup databases ...

7/30/2008 1:46:47 AM -- Performance logging ends.

7/30/2008 1:46:47 AM -- Instance2840.1 (100% processed), Instance2840.2 (100% processed), Instance2840.3 (100% processed), Instance2840.4 (100% processed), Instance2840.5 (100% processed), Instance2840.6 (100% processed), Instance2840.7 (100% processed), Instance2840.8 (100% processed), Instance2840.9 (100% processed), Instance2840.10 (100% processed), Instance2840.11 (100% processed), and Instance2840.12 (100% processed)

7/30/2008 1:46:47 AM -- [C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\StreamingBackup 2008 7 29 20 18 32.blg](#) has 655 samples.

7/30/2008 1:46:47 AM -- Creating test report ...

Performance test result report - Server 4

Test summary

Overall Test Result	Pass
Machine Name	EXN4-CX4ESRP
Test Description	
Test Start Time	6/28/2008 12:21:01 PM
Test End Time	6/28/2008 2:27:38 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_27.blg

Database sizing and throughput

Achieved I/O per Second	3128.742
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762572234752
Final database size	2773913108480
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.008	135.697	128.284	(n/a)
Database (t:\sgdb2)	0.014	0.007	132.973	124.373	(n/a)
Database (s:\sgdb3)	0.015	0.008	135.802	128.056	(n/a)
Database (t:\sgdb4)	0.015	0.007	133.612	126.402	(n/a)
Database (s:\sgdb5)	0.015	0.008	134.983	127.724	(n/a)
Database (t:\sgdb6)	0.014	0.008	133.313	124.794	(n/a)
Database (s:\sgdb7)	0.015	0.008	133.491	125.631	(n/a)
Database (t:\sgdb8)	0.015	0.007	132.922	126.278	(n/a)
Database (s:\sgdb9)	0.015	0.008	133.322	126.403	(n/a)
Database (t:\sgdb10)	0.014	0.007	133.965	127.006	(n/a)
Database (s:\sgdb11)	0.015	0.008	135.272	128.413	(n/a)
Database (t:\sgdb12)	0.015	0.007	133.808	126.219	(n/a)
Log (t:\sglg1)	0.000	0.003	0.000	76.524	4725.657
Log (s:\sglg2)	0.000	0.003	0.000	73.427	4838.039
Log (t:\sglg3)	0.000	0.003	0.000	76.127	4689.705
Log (s:\sglg4)	0.000	0.003	0.000	74.557	4741.828

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.003	0.000	76.436	4752.835
Log (s:\sglg6)	0.000	0.003	0.000	74.115	4785.746
Log (t:\sglg7)	0.000	0.003	0.000	75.712	4731.323
Log (s:\sglg8)	0.000	0.003	0.000	74.438	4757.352
Log (t:\sglg9)	0.000	0.003	0.000	76.168	4773.953
Log (s:\sglg10)	0.000	0.003	0.000	74.601	4805.937
Log (t:\sglg11)	0.000	0.003	0.000	76.469	4752.367
Log (s:\sglg12)	0.000	0.003	0.000	74.516	4787.555

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.638	1.965	6.148
Available MBytes	28148.546	28136.000	28390.000
Free System Page Table Entries	16752690.000	16752690.000	16752690.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	85801420.800	85241856.000	86343680.000
Pool Paged Bytes	48312763.733	48254976.000	48984064.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 12:21:01 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\109t2ss.xml"

6/28/2008 12:21:01 PM -- Jetstress testing begins ...

6/28/2008 12:21:01 PM -- Prepare testing begins ...

6/28/2008 12:21:14 PM -- Attaching databases ...

6/28/2008 12:21:14 PM -- Prepare testing ends.

6/28/2008 12:21:14 PM -- Dispatching transactions begins ...

6/28/2008 12:21:14 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 12:21:14 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 12:21:27 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05

seconds/read).

6/28/2008 12:21:27 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 12:21:28 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 12:21:28 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 12:21:28 PM -- Attaining prerequisites:

6/28/2008 12:27:34 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2904547000.0 (lower bound: 2899103000.0, upper bound: none)

6/28/2008 2:27:36 PM -- Performance logging ends.

6/28/2008 2:27:36 PM -- JetInterop batch transaction stats: 30229, 29891, 30147, 29870, 30337, 29877, 29976, 29793, 29929, 30029, 30303, and 30020.

6/28/2008 2:27:37 PM -- Dispatching transactions ends.

6/28/2008 2:27:37 PM -- Shutting down databases ...

6/28/2008 2:27:38 PM -- Instance2876.1 (complete), Instance2876.2 (complete), Instance2876.3 (complete), Instance2876.4 (complete), Instance2876.5 (complete), Instance2876.6 (complete), Instance2876.7 (complete), Instance2876.8 (complete), Instance2876.9 (complete), Instance2876.10 (complete), Instance2876.11 (complete), and Instance2876.12 (complete)

6/28/2008 2:27:38 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_27.blg has 504 samples.

6/28/2008 2:27:38 PM -- Creating test report ...

6/28/2008 2:27:46 PM -- Volume s:\sgdb1 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sgdb2 has 0.0141 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sgdb3 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sgdb4 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sgdb5 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sgdb6 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sgdb7 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sgdb8 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sgdb9 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sgdb10 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sgdb11 has 0.0146 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sgdb12 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sglg1 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:46 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sglg2 has 0.0033 for Avg. Disk sec/Write.

6/28/2008 2:27:46 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sglg3 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:46 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sglg4 has 0.0033 for Avg. Disk sec/Write.

6/28/2008 2:27:46 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume t:\sglg5 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:46 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:46 PM -- Volume s:\sglg6 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:46 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:46 PM -- Volume t:\sglg7 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:46 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:46 PM -- Volume s:\sglg8 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:46 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:46 PM -- Volume t:\sglg9 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:46 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:46 PM -- Volume s:\sglg10 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:46 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:46 PM -- Volume t:\sglg11 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:46 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:46 PM -- Volume s:\sglg12 has 0.0033 for Avg. Disk sec/Write.
6/28/2008 2:27:46 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:46 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 2:27:46 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 2:27:46 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour
performance\Performance_2008_6_28_12_21_27.xml has 479 samples queried.

Soft Recovery Test Result Report - Microsoft Exchange Server Jetstress - Server 4

Soft Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance2396.1	502	851.0319645
Instance2396.2	505	852.0319837
Instance2396.3	507	855.2820461
Instance2396.4	506	855.5320509
Instance2396.5	507	853.7820173
Instance2396.6	502	841.2817773
Instance2396.7	503	853.0320029
Instance2396.8	500	848.7819213
Instance2396.9	508	857.7820941
Instance2396.10	503	846.5318781
Instance2396.11	502	848.5319165
Instance2396.12	505	855.7820557

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.134	0.020	287.520	5.955	(n/a)
Database (t:\sgdb2)	0.125	0.021	285.444	5.999	(n/a)
Database (s:\sgdb3)	0.130	0.024	288.095	5.995	(n/a)
Database (t:\sgdb4)	0.131	0.021	282.941	5.970	(n/a)
Database (s:\sgdb5)	0.130	0.021	282.789	6.025	(n/a)
Database (t:\sgdb6)	0.126	0.022	283.068	5.976	(n/a)
Database (s:\sgdb7)	0.137	0.022	284.402	5.989	(n/a)
Database (t:\sgdb8)	0.137	0.018	281.128	5.943	(n/a)
Database (s:\sgdb9)	0.132	0.021	286.399	5.895	(n/a)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (t:\sgdb10)	0.124	0.021	286.237	5.977	(n/a)
Database (s:\sgdb11)	0.134	0.019	281.428	5.973	(n/a)
Database (t:\sgdb12)	0.136	0.022	284.373	5.969	(n/a)
Log (t:\sglg1)	0.008	0.017	19.437	1.029	4110.751
Log (s:\sglg2)	0.008	0.024	19.596	1.034	4090.385
Log (t:\sglg3)	0.007	0.015	19.639	1.014	4083.004
Log (s:\sglg4)	0.008	0.017	19.600	1.012	4022.754
Log (t:\sglg5)	0.008	0.030	19.675	1.036	4126.610
Log (s:\sglg6)	0.008	0.023	19.482	1.046	3987.834
Log (t:\sglg7)	0.008	0.014	19.524	1.028	4094.361
Log (s:\sglg8)	0.008	0.016	19.404	1.036	4198.786
Log (t:\sglg9)	0.008	0.017	19.364	1.004	4128.086
Log (s:\sglg10)	0.008	0.019	19.523	1.036	3976.292
Log (t:\sglg11)	0.008	0.014	19.481	1.037	4065.749
Log (s:\sglg12)	0.008	0.017	19.564	1.011	4118.002

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	15.209	3.957	31.300
Available MBytes	28463.751	28135.000	31270.000
Free System Page Table Entries	16752690.000	16752690.000	16752690.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	92289225.915	85012480.000	93261824.000
Pool Paged Bytes	49016774.310	48553984.000	49491968.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 3:40:46 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\109t2ss.xml"

6/28/2008 3:40:46 PM -- Jetstress testing begins ...

6/28/2008 3:40:46 PM -- Prepare testing begins ...

6/28/2008 3:40:58 PM -- Attaching databases ...

6/28/2008 3:40:58 PM -- Prepare testing ends.

6/28/2008 3:40:58 PM -- Dispatching transactions begins ...

6/28/2008 3:40:58 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 3:40:58 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 3:41:11 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 3:41:11 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 3:41:12 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 3:41:12 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 3:41:12 PM -- Generating log files ...

6/28/2008 4:35:57 PM -- t:\sglg1 (100.6% generated), s:\sglg2 (101.2% generated), t:\sglg3 (101.6% generated), s:\sglg4 (101.4% generated), t:\sglg5 (101.6% generated), s:\sglg6 (100.6% generated), t:\sglg7 (100.8% generated), s:\sglg8 (100.2% generated), t:\sglg9 (101.8% generated), s:\sglg10 (100.8% generated), t:\sglg11 (100.6% generated), and s:\sglg12 (101.0% generated)

6/28/2008 4:35:58 PM -- Performance logging ends.

6/28/2008 4:35:58 PM -- JetInterop batch transaction stats: 12886, 12834, 12858, 12888, 12883, 12883, 12704, 12728, 12953, 12962, 12859, and 12855.

6/28/2008 4:35:59 PM -- Dispatching transactions ends.

6/28/2008 4:35:59 PM -- Shutting down databases ...

6/28/2008 4:36:01 PM -- Instance2396.1 (complete), Instance2396.2 (complete), Instance2396.3 (complete), Instance2396.4 (complete), Instance2396.5 (complete), Instance2396.6 (complete), Instance2396.7 (complete), Instance2396.8 (complete), Instance2396.9 (complete), Instance2396.10 (complete), Instance2396.11 (complete), and Instance2396.12 (complete)

6/28/2008 4:36:01 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_11.blg has 218 samples.

6/28/2008 4:36:01 PM -- Creating test report ...

6/28/2008 4:36:03 PM -- Volume s:\sgdb1 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume t:\sgdb2 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume s:\sgdb3 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume t:\sgdb4 has 0.0154 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume s:\sgdb5 has 0.0154 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume t:\sgdb6 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume s:\sgdb7 has 0.0145 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume t:\sgdb8 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume s:\sgdb9 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 4:36:03 PM -- Volume t:\sgdb10 has 0.0139 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume s:\sgdb11 has 0.0146 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume t:\sgdb12 has 0.0153 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume t:\sglg1 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume t:\sglg1 has 0.0023 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume s:\sglg2 has 0.0034 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume s:\sglg2 has 0.0026 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume t:\sglg3 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume t:\sglg3 has 0.0024 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume s:\sglg4 has 0.0034 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume s:\sglg4 has 0.0024 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume t:\sglg5 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume t:\sglg5 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume s:\sglg6 has 0.0034 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume s:\sglg6 has 0.0029 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume t:\sglg7 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume t:\sglg7 has 0.0026 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume s:\sglg8 has 0.0034 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume s:\sglg8 has 0.0029 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume t:\sglg9 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume t:\sglg9 has 0.0023 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume s:\sglg10 has 0.0034 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume s:\sglg10 has 0.0025 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume t:\sglg11 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume t:\sglg11 has 0.0021 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Volume s:\sglg12 has 0.0034 for Avg. Disk sec/Write.
 6/28/2008 4:36:03 PM -- Volume s:\sglg12 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:36:03 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
 6/28/2008 4:36:03 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
 6/28/2008 4:36:03 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
 Recovery\Performance_2008_6_28_15_41_11.xml has 217 samples queried.
 6/28/2008 4:36:03 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
 Recovery\Performance_2008_6_28_15_41_11.html is saved.
 6/28/2008 4:36:04 PM -- Performance logging begins (interval: 4000 ms).
 6/28/2008 4:36:04 PM -- Recovering databases ...
 6/28/2008 4:50:23 PM -- Performance logging ends.
 6/28/2008 4:50:23 PM -- Instance2396.1 (851.0319645), Instance2396.2 (852.0319837), Instance2396.3
 (855.2820461), Instance2396.4 (855.5320509), Instance2396.5 (853.7820173), Instance2396.6
 (841.2817773), Instance2396.7 (853.0320029), Instance2396.8 (848.7819213), Instance2396.9
 (857.7820941), Instance2396.10 (846.5318781), Instance2396.11 (848.5319165), and Instance2396.12
 (855.7820557)
 6/28/2008 4:50:23 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
 Recovery\SoftRecovery_2008_6_28_16_36_3.blg has 213 samples

Stress Test Result Report - Server 4

Test summary

Overall Test Result	Pass
Machine Name	EXN4-CX4ESRP
Test Description	
Test Start Time	7/4/2008 12:14:01 PM
Test End Time	7/5/2008 12:20:19 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_27.blg

Database sizing and throughput

Achieved I/O per Second	3116.798
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762572234752
Final database size	2878437261312
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.007	140.304	120.367	(n/a)
Database (t:\sgdb2)	0.014	0.006	139.523	119.096	(n/a)
Database (s:\sgdb3)	0.014	0.007	140.025	120.010	(n/a)
Database (t:\sgdb4)	0.015	0.006	140.359	120.667	(n/a)
Database (s:\sgdb5)	0.014	0.007	140.122	119.810	(n/a)
Database (t:\sgdb6)	0.014	0.006	140.125	119.924	(n/a)
Database (s:\sgdb7)	0.014	0.007	140.213	120.031	(n/a)
Database (t:\sgdb8)	0.015	0.006	140.046	119.340	(n/a)
Database (s:\sgdb9)	0.014	0.007	139.843	119.404	(n/a)
Database (t:\sgdb10)	0.014	0.007	139.760	119.351	(n/a)
Database (s:\sgdb11)	0.014	0.007	139.670	119.022	(n/a)
Database (t:\sgdb12)	0.015	0.006	139.977	119.806	(n/a)
Log (t:\sglg1)	0.000	0.002	0.000	75.485	4569.108
Log (s:\sglg2)	0.000	0.003	0.000	74.428	4607.812
Log (t:\sglg3)	0.000	0.002	0.000	75.407	4561.013
Log (s:\sglg4)	0.000	0.003	0.000	75.553	4581.691

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.002	0.000	75.452	4577.414
Log (s:\sglg6)	0.000	0.003	0.000	74.998	4607.010
Log (t:\sglg7)	0.000	0.002	0.000	75.593	4578.560
Log (s:\sglg8)	0.000	0.003	0.000	75.069	4584.109
Log (t:\sglg9)	0.000	0.002	0.000	75.347	4580.218
Log (s:\sglg10)	0.000	0.003	0.000	74.836	4620.201
Log (t:\sglg11)	0.000	0.002	0.000	75.143	4573.553
Log (s:\sglg12)	0.000	0.003	0.000	75.187	4580.822

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.759	1.538	9.034
Available MBytes	28149.640	28128.000	28406.000
Free System Page Table Entries	16753221.089	16753210.000	16753350.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	76463556.680	72142848.000	77422592.000
Pool Paged Bytes	44806328.985	44429312.000	45441024.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

7/4/2008 12:14:01 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\109t2ss.xml"

7/4/2008 12:14:01 PM -- Jetstress testing begins ...

7/4/2008 12:14:01 PM -- Prepare testing begins ...

7/4/2008 12:14:14 PM -- Attaching databases ...

7/4/2008 12:14:14 PM -- Prepare testing ends.

7/4/2008 12:14:14 PM -- Dispatching transactions begins ...

7/4/2008 12:14:14 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

7/4/2008 12:14:14 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

7/4/2008 12:14:27 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1 seconds/read).

7/4/2008 12:14:27 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).

7/4/2008 12:14:28 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

7/4/2008 12:14:28 PM -- Performance logging begins (interval: 15000 ms).

7/4/2008 12:14:28 PM -- Attaining prerequisites:

7/4/2008 12:20:16 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2901328000.0 (lower bound: 2899103000.0, upper bound: none)

7/5/2008 12:20:17 PM -- Performance logging ends.

7/5/2008 12:20:17 PM -- JetInterop batch transaction stats: 333433, 331907, 332637, 333831, 333188, 333115, 333913, 333103, 332675, 332763, 332017, and 332578.

7/5/2008 12:20:18 PM -- Dispatching transactions ends.

7/5/2008 12:20:18 PM -- Shutting down databases ...

7/5/2008 12:20:19 PM -- Instance2728.1 (complete), Instance2728.2 (complete), Instance2728.3 (complete), Instance2728.4 (complete), Instance2728.5 (complete), Instance2728.6 (complete), Instance2728.7 (complete), Instance2728.8 (complete), Instance2728.9 (complete), Instance2728.10 (complete), Instance2728.11 (complete), and Instance2728.12 (complete)

7/5/2008 12:20:19 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_27.blg has 5780 samples.

7/5/2008 12:20:20 PM -- Creating test report ...

7/5/2008 12:22:14 PM -- Volume s:\sgdb1 has 0.0147 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sgdb2 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sgdb3 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sgdb4 has 0.0150 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sgdb5 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sgdb6 has 0.0136 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sgdb7 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sgdb9 has 0.0144 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sgdb10 has 0.0136 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sgdb11 has 0.0142 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sgdb12 has 0.0148 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sglg1 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:14 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sglg2 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:14 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sglg3 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:14 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sglg4 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:14 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume t:\sglg5 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:14 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:14 PM -- Volume s:\sglg6 has 0.0026 for Avg. Disk sec/Write.

7/5/2008 12:22:14 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:14 PM -- Volume t:\sglg7 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:14 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:14 PM -- Volume s:\sglg8 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:14 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:14 PM -- Volume t:\sglg9 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:14 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:14 PM -- Volume s:\sglg10 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:14 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:14 PM -- Volume t:\sglg11 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:14 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:14 PM -- Volume s:\sglg12 has 0.0026 for Avg. Disk sec/Write.
7/5/2008 12:22:14 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:14 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
7/5/2008 12:22:14 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
7/5/2008 12:22:14 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour
stress\Stress_2008_7_4_12_14_27.xml has 5756 samples queried.

Jetstress Streaming Backup Performance (no backup) - Server 4

Microsoft Exchange Server Jetstress Streaming backup Test Result Report

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance1156.1	220461.65	05:26:46	11.24
Instance1156.2	220469.65	05:16:51	11.60
Instance1156.3	220469.65	05:27:55	11.21
Instance1156.4	220457.65	05:16:55	11.59
Instance1156.5	220457.65	05:27:06	11.23
Instance1156.6	220459.65	05:16:46	11.60
Instance1156.7	220485.65	05:27:49	11.21
Instance1156.8	220463.65	05:16:51	11.60
Instance1156.9	220479.65	05:26:40	11.25
Instance1156.10	220485.65	05:16:32	11.61
Instance1156.11	220469.65	05:27:38	11.21
Instance1156.12	220463.65	05:16:47	11.60

Jetstress System Parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.011	0.000	89.740	0.002	(n/a)
Database (t:\sgdb2)	0.010	0.000	89.727	0.002	(n/a)
Database (s:\sgdb3)	0.011	0.000	89.281	0.000	(n/a)
Database (t:\sgdb4)	0.010	0.000	89.723	0.002	(n/a)
Database (s:\sgdb5)	0.011	0.000	89.737	0.002	(n/a)
Database (t:\sgdb6)	0.010	0.000	89.723	0.003	(n/a)
Database (s:\sgdb7)	0.011	0.000	89.527	0.000	(n/a)
Database (t:\sgdb8)	0.010	0.000	89.725	0.002	(n/a)
Database (s:\sgdb9)	0.011	0.000	89.746	0.002	(n/a)
Database (t:\sgdb10)	0.010	0.000	89.734	0.002	(n/a)
Database (s:\sgdb11)	0.011	0.000	89.694	0.000	(n/a)
Database (t:\sgdb12)	0.010	0.000	89.725	0.002	(n/a)
Log (t:\sglg1)	0.000	0.000	0.000	0.002	15.958
Log (s:\sglg2)	0.000	0.001	0.000	0.002	22.250
Log (t:\sglg3)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg4)	0.000	0.001	0.000	0.002	21.969
Log (t:\sglg5)	0.000	0.000	0.000	0.002	10.699
Log (s:\sglg6)	0.000	0.001	0.000	0.002	21.764
Log (t:\sglg7)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg8)	0.000	0.001	0.000	0.002	22.250
Log (t:\sglg9)	0.000	0.000	0.000	0.002	16.796
Log (s:\sglg10)	0.000	0.001	0.000	0.002	19.250
Log (t:\sglg11)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg12)	0.000	0.001	0.000	0.002	22.964

Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	2.088	0.874	2.765
Available MBytes	31335.302	31324.000	31338.000
Free System Page Table Entries	16753410.000	16753410.000	16753410.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	65014876.238	64991232.000	65347584.000
Pool Paged Bytes	49882638.852	49491968.000	50434048.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log

7/29/2008 8:18:25 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\109t2ss.xml"

7/29/2008 8:18:25 PM -- Jetstress testing begins ...

7/29/2008 8:18:25 PM -- Prepare testing begins ...

7/29/2008 8:18:38 PM -- Attaching databases ...

7/29/2008 8:18:38 PM -- Prepare testing ends.

7/29/2008 8:18:51 PM -- Performance logging begins (interval: 30000 ms).

7/29/2008 8:18:51 PM -- Streaming backup databases ...

7/30/2008 1:46:48 AM -- Performance logging ends.

7/30/2008 1:46:48 AM -- Instance1156.1 (100% processed), Instance1156.2 (100% processed), Instance1156.3 (100% processed), Instance1156.4 (100% processed), Instance1156.5 (100% processed), Instance1156.6 (100% processed), Instance1156.7 (100% processed), Instance1156.8 (100% processed), Instance1156.9 (100% processed), Instance1156.10 (100% processed), Instance1156.11 (100% processed), and Instance1156.12 (100% processed)

7/30/2008 1:46:48 AM -- [C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\StreamingBackup 2008 7 29 20 18 38.blg](#) has 655 samples.

7/30/2008 1:46:48 AM -- Creating test report ...

Performance test result report - Server 5

Test summary

Overall Test Result	Pass
Machine Name	EXN5-CX4ESRP
Test Description	
Test Start Time	6/28/2008 12:21:06 PM
Test End Time	6/28/2008 2:27:36 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_31.blg

Database sizing and throughput

Achieved I/O per Second	3133.391
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2773931982848
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.008	134.279	125.281	(n/a)
Database (t:\sgdb2)	0.014	0.007	134.953	126.468	(n/a)
Database (s:\sgdb3)	0.015	0.008	135.242	127.152	(n/a)
Database (t:\sgdb4)	0.015	0.007	135.124	127.882	(n/a)
Database (s:\sgdb5)	0.015	0.008	133.526	124.299	(n/a)
Database (t:\sgdb6)	0.014	0.007	134.188	124.967	(n/a)
Database (s:\sgdb7)	0.015	0.008	135.923	127.806	(n/a)
Database (t:\sgdb8)	0.015	0.007	135.234	128.165	(n/a)
Database (s:\sgdb9)	0.015	0.008	133.701	125.194	(n/a)
Database (t:\sgdb10)	0.014	0.007	134.482	125.500	(n/a)
Database (s:\sgdb11)	0.015	0.008	135.505	127.419	(n/a)
Database (t:\sgdb12)	0.015	0.007	134.523	126.580	(n/a)
Log (t:\sglg1)	0.000	0.003	0.000	76.040	4703.462
Log (s:\sglg2)	0.000	0.003	0.000	75.384	4814.389
Log (t:\sglg3)	0.000	0.003	0.000	77.531	4750.154

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (s:\sglg4)	0.000	0.003	0.000	76.218	4745.390
Log (t:\sglg5)	0.000	0.003	0.000	75.897	4665.608
Log (s:\sglg6)	0.000	0.003	0.000	74.456	4786.987
Log (t:\sglg7)	0.000	0.003	0.000	77.132	4633.417
Log (s:\sglg8)	0.000	0.003	0.000	76.414	4744.544
Log (t:\sglg9)	0.000	0.003	0.000	76.634	4675.522
Log (s:\sglg10)	0.000	0.003	0.000	75.310	4782.232
Log (t:\sglg11)	0.000	0.003	0.000	77.216	4669.862
Log (s:\sglg12)	0.000	0.003	0.000	75.964	4749.189

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.657	2.438	6.370
Available MBytes	28133.573	28121.000	28431.000
Free System Page Table Entries	16752790.000	16752790.000	16752790.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	86362717.867	85893120.000	86904832.000
Pool Paged Bytes	49215786.667	49135616.000	49856512.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 12:21:06 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\109t2ss.xml"

6/28/2008 12:21:06 PM -- Jetstress testing begins ...

6/28/2008 12:21:06 PM -- Prepare testing begins ...

6/28/2008 12:21:18 PM -- Attaching databases ...

6/28/2008 12:21:18 PM -- Prepare testing ends.

6/28/2008 12:21:18 PM -- Dispatching transactions begins ...

6/28/2008 12:21:19 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 12:21:19 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 12:21:31 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 12:21:31 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 12:21:32 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 12:21:32 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 12:21:32 PM -- Attaining prerequisites:

6/28/2008 12:27:30 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2902917000.0 (lower bound: 2899103000.0, upper bound: none)

6/28/2008 2:27:32 PM -- Performance logging ends.

6/28/2008 2:27:32 PM -- JetInterop batch transaction stats: 29983, 30232, 30501, 30132, 29874, 29747, 30137, 30139, 29873, 30149, 30258, and 30040.

6/28/2008 2:27:33 PM -- Dispatching transactions ends.

6/28/2008 2:27:33 PM -- Shutting down databases ...

6/28/2008 2:27:36 PM -- Instance2212.1 (complete), Instance2212.2 (complete), Instance2212.3 (complete), Instance2212.4 (complete), Instance2212.5 (complete), Instance2212.6 (complete), Instance2212.7 (complete), Instance2212.8 (complete), Instance2212.9 (complete), Instance2212.10 (complete), Instance2212.11 (complete), and Instance2212.12 (complete)

6/28/2008 2:27:36 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_31.blg has 503 samples.

6/28/2008 2:27:36 PM -- Creating test report ...

6/28/2008 2:27:43 PM -- Volume s:\sgdb1 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sgdb2 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume s:\sgdb3 has 0.0146 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sgdb4 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume s:\sgdb5 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sgdb6 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume s:\sgdb7 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sgdb8 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume s:\sgdb9 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sgdb10 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume s:\sgdb11 has 0.0146 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sgdb12 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sglg1 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:43 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume s:\sglg2 has 0.0031 for Avg. Disk sec/Write.

6/28/2008 2:27:43 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sglg3 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:43 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume s:\sglg4 has 0.0031 for Avg. Disk sec/Write.

6/28/2008 2:27:43 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:43 PM -- Volume t:\sglg5 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:43 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Volume s:\sglg6 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 2:27:43 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Volume t:\sglg7 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 2:27:43 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Volume s:\sglg8 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 2:27:43 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Volume t:\sglg9 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 2:27:43 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Volume s:\sglg10 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 2:27:43 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Volume t:\sglg11 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 2:27:43 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Volume s:\sglg12 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 2:27:43 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:43 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 2:27:43 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 2:27:43 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour
performance\Performance_2008_6_28_12_21_31.xml has 479 samples queried.

Soft Recovery Test Result Report - Microsoft Exchange Server Jetstress - Server 5

Soft Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance2728.1	510	840.5425215
Instance2728.2	504	835.5423615
Instance2728.3	506	839.2924815
Instance2728.4	507	838.5424575
Instance2728.5	510	835.7923695
Instance2728.6	507	836.0423775
Instance2728.7	511	835.0423455
Instance2728.8	502	836.0423775
Instance2728.9	500	831.5422335
Instance2728.10	500	825.7920495
Instance2728.11	509	839.2924815
Instance2728.12	506	839.5424895

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.129	0.021	292.975	6.085	(n/a)
Database (t:\sgdb2)	0.127	0.020	294.726	6.098	(n/a)
Database (s:\sgdb3)	0.132	0.022	291.467	6.087	(n/a)
Database (t:\sgdb4)	0.132	0.020	287.425	6.120	(n/a)
Database (s:\sgdb5)	0.131	0.019	296.103	6.129	(n/a)
Database (t:\sgdb6)	0.127	0.020	291.557	6.136	(n/a)
Database (s:\sgdb7)	0.130	0.018	291.690	6.175	(n/a)
Database (t:\sgdb8)	0.130	0.019	296.739	6.074	(n/a)
Database (s:\sgdb9)	0.128	0.021	289.163	6.054	(n/a)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (t:\sgdb10)	0.122	0.020	295.868	6.044	(n/a)
Database (s:\sgdb11)	0.133	0.021	290.726	6.110	(n/a)
Database (t:\sgdb12)	0.134	0.020	295.606	6.074	(n/a)
Log (t:\sglg1)	0.008	0.016	20.056	1.031	4035.399
Log (s:\sglg2)	0.008	0.020	19.935	1.054	3944.795
Log (t:\sglg3)	0.008	0.015	19.977	1.035	4021.953
Log (s:\sglg4)	0.008	0.018	20.061	1.045	4113.772
Log (t:\sglg5)	0.008	0.018	20.094	1.061	4067.736
Log (s:\sglg6)	0.008	0.017	20.057	1.049	4136.893
Log (t:\sglg7)	0.008	0.014	20.210	1.062	4005.789
Log (s:\sglg8)	0.008	0.016	19.861	1.048	4064.867
Log (t:\sglg9)	0.008	0.021	19.783	1.034	4089.457
Log (s:\sglg10)	0.008	0.015	19.773	1.044	3945.001
Log (t:\sglg11)	0.008	0.014	20.097	1.028	4249.768
Log (s:\sglg12)	0.008	0.019	19.982	1.028	3988.771

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	16.615	9.293	33.660
Available MBytes	28417.273	28122.000	31250.000
Free System Page Table Entries	16752200.000	16752200.000	16752200.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	92949959.656	85651456.000	93925376.000
Pool Paged Bytes	54491910.124	54038528.000	54956032.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 3:40:48 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c
"C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\109t2ss.xml"

6/28/2008 3:40:48 PM -- Jetstress testing begins ...

6/28/2008 3:40:48 PM -- Prepare testing begins ...

6/28/2008 3:41:00 PM -- Attaching databases ...

6/28/2008 3:41:00 PM -- Prepare testing ends.

6/28/2008 3:41:00 PM -- Dispatching transactions begins ...

6/28/2008 3:41:00 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 3:41:00 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 3:41:13 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 3:41:13 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 3:41:14 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 3:41:14 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 3:41:14 PM -- Generating log files ...

6/28/2008 4:35:40 PM -- t:\sglg1 (102.2% generated), s:\sglg2 (101.0% generated), t:\sglg3 (101.4% generated), s:\sglg4 (101.4% generated), t:\sglg5 (102.0% generated), s:\sglg6 (101.6% generated), t:\sglg7 (102.4% generated), s:\sglg8 (100.4% generated), t:\sglg9 (100.2% generated), s:\sglg10 (100.2% generated), t:\sglg11 (102.0% generated), and s:\sglg12 (101.4% generated)

6/28/2008 4:35:41 PM -- Performance logging ends.

6/28/2008 4:35:42 PM -- JetInterop batch transaction stats: 12890, 12890, 13062, 12794, 12991, 13045, 12953, 12965, 12982, 12898, 12947, and 12901.

6/28/2008 4:35:42 PM -- Dispatching transactions ends.

6/28/2008 4:35:42 PM -- Shutting down databases ...

6/28/2008 4:35:44 PM -- Instance2728.1 (complete), Instance2728.2 (complete), Instance2728.3 (complete), Instance2728.4 (complete), Instance2728.5 (complete), Instance2728.6 (complete), Instance2728.7 (complete), Instance2728.8 (complete), Instance2728.9 (complete), Instance2728.10 (complete), Instance2728.11 (complete), and Instance2728.12 (complete)

6/28/2008 4:35:44 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_13.blg has 217 samples.

6/28/2008 4:35:44 PM -- Creating test report ...

6/28/2008 4:35:47 PM -- Volume s:\sgdb1 has 0.0154 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume t:\sgdb2 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume s:\sgdb3 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume t:\sgdb4 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume s:\sgdb5 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume t:\sgdb6 has 0.0142 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume s:\sgdb7 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume t:\sgdb8 has 0.0154 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume s:\sgdb9 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 4:35:47 PM -- Volume t:\sgdb10 has 0.0138 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume s:\sgdb11 has 0.0148 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume t:\sgdb12 has 0.0155 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume t:\sglg1 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume t:\sglg1 has 0.0028 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume s:\sglg2 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume s:\sglg2 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume t:\sglg3 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume t:\sglg3 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume s:\sglg4 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume s:\sglg4 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume t:\sglg5 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume t:\sglg5 has 0.0024 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume s:\sglg6 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume s:\sglg6 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume t:\sglg7 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume t:\sglg7 has 0.0021 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume s:\sglg8 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume s:\sglg8 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume t:\sglg9 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume t:\sglg9 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume s:\sglg10 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume s:\sglg10 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume t:\sglg11 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume t:\sglg11 has 0.0025 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Volume s:\sglg12 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:47 PM -- Volume s:\sglg12 has 0.0022 for Avg. Disk sec/Read.
6/28/2008 4:35:47 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 4:35:47 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 4:35:47 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_13.xml has 216 samples queried.
6/28/2008 4:35:47 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_13.html is saved.
6/28/2008 4:35:48 PM -- Performance logging begins (interval: 4000 ms).
6/28/2008 4:35:48 PM -- Recovering databases ...
6/28/2008 4:49:49 PM -- Performance logging ends.
6/28/2008 4:49:49 PM -- Instance2728.1 (840.5425215), Instance2728.2 (835.5423615), Instance2728.3 (839.2924815), Instance2728.4 (838.5424575), Instance2728.5 (835.7923695), Instance2728.6 (836.0423775), Instance2728.7 (835.0423455), Instance2728.8 (836.0423775), Instance2728.9 (831.5422335), Instance2728.10 (825.7920495), Instance2728.11 (839.2924815), and Instance2728.12 (839.5424895)
6/28/2008 4:49:49 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\SoftRecovery_2008_6_28_16_35_47.blg has 209 samples.

Stress Test Result Report - Server 5

Test summary

Overall Test Result	Pass
Machine Name	EXN5-CX4ESRP
Test Description	
Test Start Time	7/4/2008 12:13:52 PM
Test End Time	7/5/2008 12:20:07 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_17.blg

Database sizing and throughput

Achieved I/O per Second	3163.274
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2880121274368
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.007	142.291	122.706	(n/a)
Database (t:\sgdb2)	0.014	0.006	141.507	121.571	(n/a)
Database (s:\sgdb3)	0.014	0.007	141.589	121.352	(n/a)
Database (t:\sgdb4)	0.015	0.006	141.898	122.101	(n/a)
Database (s:\sgdb5)	0.015	0.007	141.891	121.673	(n/a)
Database (t:\sgdb6)	0.014	0.006	142.007	121.806	(n/a)
Database (s:\sgdb7)	0.014	0.006	141.619	121.585	(n/a)
Database (t:\sgdb8)	0.015	0.006	141.762	121.776	(n/a)
Database (s:\sgdb9)	0.015	0.007	141.693	121.228	(n/a)
Database (t:\sgdb10)	0.014	0.006	141.760	121.536	(n/a)
Database (s:\sgdb11)	0.014	0.007	142.049	121.762	(n/a)
Database (t:\sgdb12)	0.015	0.006	141.838	122.274	(n/a)
Log (t:\sglg1)	0.000	0.002	0.000	77.772	4518.391
Log (s:\sglg2)	0.000	0.002	0.000	76.706	4565.846
Log (t:\sglg3)	0.000	0.002	0.000	77.325	4525.486
Log (s:\sglg4)	0.000	0.002	0.000	77.248	4518.820

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.002	0.000	77.563	4520.196
Log (s:\sglg6)	0.000	0.002	0.000	76.773	4552.154
Log (t:\sglg7)	0.000	0.002	0.000	77.328	4516.789
Log (s:\sglg8)	0.000	0.002	0.000	77.180	4524.127
Log (t:\sglg9)	0.000	0.002	0.000	77.276	4533.008
Log (s:\sglg10)	0.000	0.002	0.000	76.760	4560.103
Log (t:\sglg11)	0.000	0.002	0.000	77.388	4524.486
Log (s:\sglg12)	0.000	0.002	0.000	77.363	4527.479

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.868	1.943	11.402
Available MBytes	28153.565	28123.000	28479.000
Free System Page Table Entries	16753178.645	16753170.000	16753380.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	76383457.362	71745536.000	77197312.000
Pool Paged Bytes	44781355.978	44052480.000	45355008.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

7/4/2008 12:13:52 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\109t2ss.xml"

7/4/2008 12:13:52 PM -- Jetstress testing begins ...

7/4/2008 12:13:52 PM -- Prepare testing begins ...

7/4/2008 12:14:04 PM -- Attaching databases ...

7/4/2008 12:14:04 PM -- Prepare testing ends.

7/4/2008 12:14:04 PM -- Dispatching transactions begins ...

7/4/2008 12:14:05 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

7/4/2008 12:14:05 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

7/4/2008 12:14:17 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1

seconds/read).

7/4/2008 12:14:17 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).

7/4/2008 12:14:18 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

7/4/2008 12:14:18 PM -- Performance logging begins (interval: 15000 ms).

7/4/2008 12:14:18 PM -- Attaining prerequisites:

7/4/2008 12:20:03 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2904449000.0 (lower bound: 2899103000.0, upper bound: none)

7/5/2008 12:20:04 PM -- Performance logging ends.

7/5/2008 12:20:04 PM -- JetInterop batch transaction stats: 339096, 337636, 337628, 337825, 338505, 338225, 337277, 337489, 337867, 338243, 338777, and 338242.

7/5/2008 12:20:05 PM -- Dispatching transactions ends.

7/5/2008 12:20:05 PM -- Shutting down databases ...

7/5/2008 12:20:07 PM -- Instance2652.1 (complete), Instance2652.2 (complete), Instance2652.3 (complete), Instance2652.4 (complete), Instance2652.5 (complete), Instance2652.6 (complete), Instance2652.7 (complete), Instance2652.8 (complete), Instance2652.9 (complete), Instance2652.10 (complete), Instance2652.11 (complete), and Instance2652.12 (complete)

7/5/2008 12:20:07 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_17.blg has 5779 samples.

7/5/2008 12:20:07 PM -- Creating test report ...

7/5/2008 12:22:01 PM -- Volume s:\sgdb1 has 0.0147 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb2 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb3 has 0.0144 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb4 has 0.0150 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb5 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb6 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb7 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb9 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb10 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sgdb11 has 0.0142 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sgdb12 has 0.0150 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sglg1 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sglg2 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sglg3 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sglg4 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume t:\sglg5 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:01 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:01 PM -- Volume s:\sglg6 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume t:\sglg7 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume s:\sglg8 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume t:\sglg9 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume s:\sglg10 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume t:\sglg11 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Volume s:\sglg12 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:01 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:01 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
7/5/2008 12:22:01 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
7/5/2008 12:22:01 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour
stress\Stress_2008_7_4_12_14_17.xml has 5756 samples queried.

Jetstress Streaming Backup Performance (no backup) - Server 5

Microsoft Exchange Server Jetstress Streaming backup Test Result Report

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance2328.1	220477.65	05:26:04	11.27
Instance2328.2	220469.65	05:16:41	11.60
Instance2328.3	220489.65	05:27:45	11.21
Instance2328.4	220461.65	05:16:45	11.60
Instance2328.5	220479.65	05:26:43	11.25
Instance2328.6	220487.65	05:16:29	11.61
Instance2328.7	220463.65	05:27:30	11.22
Instance2328.8	220463.65	05:16:36	11.61
Instance2328.9	220453.65	05:26:05	11.27
Instance2328.10	220481.65	05:16:06	11.63
Instance2328.11	220487.65	05:27:09	11.23
Instance2328.12	220471.65	05:16:15	11.62

Jetstress System Parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.011	0.001	89.749	0.002	(n/a)
Database (t:\sgdb2)	0.010	4.90652759574778E-05	89.727	0.002	(n/a)
Database (s:\sgdb3)	0.011	0.000	89.610	0.000	(n/a)
Database (t:\sgdb4)	0.010	0.000	89.726	0.002	(n/a)
Database (s:\sgdb5)	0.011	0.000	89.749	0.002	(n/a)
Database (t:\sgdb6)	0.010	0.000	89.735	0.002	(n/a)
Database (s:\sgdb7)	0.011	0.000	89.744	0.001	(n/a)
Database (t:\sgdb8)	0.010	0.000	89.725	0.002	(n/a)
Database (s:\sgdb9)	0.011	0.000	89.739	0.002	(n/a)
Database (t:\sgdb10)	0.010	0.001	89.733	0.002	(n/a)
Database (s:\sgdb11)	0.011	0.000	89.753	0.002	(n/a)
Database (t:\sgdb12)	0.010	0.000	89.729	0.002	(n/a)
Log (t:\sglg1)	0.000	0.000	0.000	0.002	15.136
Log (s:\sglg2)	0.000	0.001	0.000	0.002	23.225
Log (t:\sglg3)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg4)	0.000	0.001	0.000	0.002	23.059
Log (t:\sglg5)	0.000	0.000	0.000	0.002	10.699
Log (s:\sglg6)	0.000	0.001	0.000	0.002	22.106
Log (t:\sglg7)	0.000	0.000	0.000	0.001	10.128
Log (s:\sglg8)	0.000	0.001	0.000	0.002	19.914
Log (t:\sglg9)	0.000	0.000	0.000	0.002	15.501
Log (s:\sglg10)	0.000	0.001	0.000	0.002	18.476
Log (t:\sglg11)	0.000	0.000	0.000	0.002	10.699

Log (s:\sglg12)	0.000	0.001	0.000	0.002	21.764
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Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	2.180	0.738	2.803
Available MBytes	31337.524	31331.000	31341.000
Free System Page Table Entries	16753320.000	16753320.000	16753320.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	65032654.754	65011712.000	65261568.000
Pool Paged Bytes	49994181.374	49623040.000	50528256.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log

7/29/2008 8:18:28 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\109t2ss.xml"

7/29/2008 8:18:29 PM -- Jetstress testing begins ...

7/29/2008 8:18:29 PM -- Prepare testing begins ...

7/29/2008 8:18:41 PM -- Attaching databases ...

7/29/2008 8:18:41 PM -- Prepare testing ends.

7/29/2008 8:18:55 PM -- Performance logging begins (interval: 30000 ms).

7/29/2008 8:18:55 PM -- Streaming backup databases ...

7/30/2008 1:46:42 AM -- Performance logging ends.

7/30/2008 1:46:42 AM -- Instance2328.1 (100% processed), Instance2328.2 (100% processed), Instance2328.3 (100% processed), Instance2328.4 (100% processed), Instance2328.5 (100% processed), Instance2328.6 (100% processed), Instance2328.7 (100% processed), Instance2328.8 (100% processed), Instance2328.9 (100% processed), Instance2328.10 (100% processed), Instance2328.11 (100% processed), and Instance2328.12 (100% processed)

7/30/2008 1:46:42 AM -- [C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\StreamingBackup_2008_7_29_20_18_41.blg](#) has 655 samples.

7/30/2008 1:46:42 AM -- Creating test report ...

Performance test result report -Server 6

Test summary

Overall Test Result	Pass
Machine Name	EXN6-CX4ESRP
Test Description	
Test Start Time	6/28/2008 12:21:08 PM
Test End Time	6/28/2008 2:27:42 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_34.blg

Database sizing and throughput

Achieved I/O per Second	3144.305
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2773967634432
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.008	134.580	125.663	(n/a)
Database (t:\sgdb2)	0.014	0.007	134.381	126.817	(n/a)
Database (s:\sgdb3)	0.015	0.008	134.913	126.093	(n/a)
Database (t:\sgdb4)	0.015	0.007	136.203	127.942	(n/a)
Database (s:\sgdb5)	0.015	0.008	136.045	126.715	(n/a)
Database (t:\sgdb6)	0.014	0.007	135.518	126.724	(n/a)
Database (s:\sgdb7)	0.015	0.008	135.200	126.490	(n/a)
Database (t:\sgdb8)	0.016	0.007	136.777	128.110	(n/a)
Database (s:\sgdb9)	0.015	0.008	135.765	127.183	(n/a)
Database (t:\sgdb10)	0.014	0.007	134.923	126.550	(n/a)
Database (s:\sgdb11)	0.015	0.008	134.716	125.734	(n/a)
Database (t:\sgdb12)	0.015	0.007	135.059	126.205	(n/a)
Log (t:\sglg1)	0.000	0.003	0.000	76.342	4696.241
Log (s:\sglg2)	0.000	0.003	0.000	75.498	4810.388
Log (t:\sglg3)	0.000	0.003	0.000	77.027	4706.533
Log (s:\sglg4)	0.000	0.003	0.000	76.167	4702.685

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.003	0.000	77.314	4707.764
Log (s:\sglg6)	0.000	0.003	0.000	76.036	4743.597
Log (t:\sglg7)	0.000	0.003	0.000	77.185	4733.340
Log (s:\sglg8)	0.000	0.003	0.000	77.196	4715.839
Log (t:\sglg9)	0.000	0.003	0.000	77.210	4695.329
Log (s:\sglg10)	0.000	0.003	0.000	75.559	4774.108
Log (t:\sglg11)	0.000	0.003	0.000	76.988	4683.132
Log (s:\sglg12)	0.000	0.003	0.000	76.077	4729.822

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.676	1.899	5.326
Available MBytes	28142.602	28124.000	28361.000
Free System Page Table Entries	16752700.000	16752700.000	16752700.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	84534357.333	83972096.000	85102592.000
Pool Paged Bytes	48265932.800	48185344.000	48902144.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 12:21:08 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\109t2ss.xml"

6/28/2008 12:21:08 PM -- Jetstress testing begins ...

6/28/2008 12:21:08 PM -- Prepare testing begins ...

6/28/2008 12:21:21 PM -- Attaching databases ...

6/28/2008 12:21:21 PM -- Prepare testing ends.

6/28/2008 12:21:21 PM -- Dispatching transactions begins ...

6/28/2008 12:21:21 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 12:21:21 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 12:21:34 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 12:21:34 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 12:21:35 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 12:21:35 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 12:21:35 PM -- Attaining prerequisites:

6/28/2008 12:27:37 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2905719000.0 (lower bound: 2899103000.0, upper bound: none)

6/28/2008 2:27:39 PM -- Performance logging ends.

6/28/2008 2:27:39 PM -- JetInterop batch transaction stats: 30120, 30133, 30283, 30323, 30448, 30373, 30282, 30584, 30337, 30258, 30180, and 30442.

6/28/2008 2:27:40 PM -- Dispatching transactions ends.

6/28/2008 2:27:40 PM -- Shutting down databases ...

6/28/2008 2:27:42 PM -- Instance1492.1 (complete), Instance1492.2 (complete), Instance1492.3 (complete), Instance1492.4 (complete), Instance1492.5 (complete), Instance1492.6 (complete), Instance1492.7 (complete), Instance1492.8 (complete), Instance1492.9 (complete), Instance1492.10 (complete), Instance1492.11 (complete), and Instance1492.12 (complete)

6/28/2008 2:27:42 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_34.blg has 504 samples.

6/28/2008 2:27:42 PM -- Creating test report ...

6/28/2008 2:27:49 PM -- Volume s:\sgdb1 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sgdb2 has 0.0138 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sgdb3 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sgdb4 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sgdb5 has 0.0149 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sgdb6 has 0.0141 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sgdb7 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sgdb8 has 0.0156 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sgdb9 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sgdb10 has 0.0137 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sgdb11 has 0.0146 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sgdb12 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sglg1 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:49 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sglg2 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:49 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sglg3 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:49 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sglg4 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:49 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sglg5 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:49 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume s:\sglg6 has 0.0030 for Avg. Disk sec/Write.

6/28/2008 2:27:49 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:49 PM -- Volume t:\sglg7 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:49 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:49 PM -- Volume s:\sglg8 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:49 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:49 PM -- Volume t:\sglg9 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 2:27:49 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:49 PM -- Volume s:\sglg10 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:49 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:49 PM -- Volume t:\sglg11 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 2:27:49 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:49 PM -- Volume s:\sglg12 has 0.0030 for Avg. Disk sec/Write.
6/28/2008 2:27:49 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:49 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 2:27:49 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 2:27:49 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_34.xml has 479 samples queried.

Soft Recovery Test Result Report - Microsoft Exchange Server Jetstress - Server 6

Soft Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance2104.1	522	840.0366262
Instance2104.2	501	828.0365494
Instance2104.3	500	830.786567
Instance2104.4	502	834.2865894
Instance2104.5	504	831.7865734
Instance2104.6	506	828.0365494
Instance2104.7	508	832.7865798
Instance2104.8	509	833.286583
Instance2104.9	504	832.7865798
Instance2104.10	506	830.5365654
Instance2104.11	508	833.0365814
Instance2104.12	506	833.0365814

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.125	0.022	294.274	6.160	(n/a)
Database (t:\sgdb2)	0.129	0.020	289.103	6.065	(n/a)
Database (s:\sgdb3)	0.125	0.022	288.094	6.058	(n/a)
Database (t:\sgdb4)	0.133	0.020	295.973	6.072	(n/a)
Database (s:\sgdb5)	0.129	0.019	295.197	6.097	(n/a)
Database (t:\sgdb6)	0.120	0.020	291.836	6.098	(n/a)
Database (s:\sgdb7)	0.130	0.020	293.471	6.137	(n/a)
Database (t:\sgdb8)	0.138	0.018	293.411	6.158	(n/a)
Database (s:\sgdb9)	0.120	0.020	289.700	6.102	(n/a)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (t:\sgdb10)	0.129	0.018	289.572	6.112	(n/a)
Database (s:\sgdb11)	0.131	0.019	293.161	6.143	(n/a)
Database (t:\sgdb12)	0.135	0.023	293.919	6.127	(n/a)
Log (t:\sglg1)	0.008	0.022	20.300	1.026	4195.858
Log (s:\sglg2)	0.008	0.021	19.827	1.055	3995.839
Log (t:\sglg3)	0.008	0.015	19.787	1.039	4039.184
Log (s:\sglg4)	0.008	0.015	19.857	1.037	3998.558
Log (t:\sglg5)	0.008	0.018	19.944	1.048	4089.465
Log (s:\sglg6)	0.008	0.014	20.012	1.056	3953.414
Log (t:\sglg7)	0.009	0.019	20.106	1.047	4104.847
Log (s:\sglg8)	0.008	0.020	20.146	1.040	3987.437
Log (t:\sglg9)	0.008	0.013	19.947	1.044	4095.576
Log (s:\sglg10)	0.008	0.014	20.020	1.069	3976.091
Log (t:\sglg11)	0.009	0.013	20.105	1.053	4138.708
Log (s:\sglg12)	0.008	0.018	20.019	1.046	3925.747

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	16.164	7.276	28.600
Available MBytes	28487.751	28138.000	31279.000
Free System Page Table Entries	16752700.000	16752700.000	16752700.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	91101879.732	83722240.000	92188672.000
Pool Paged Bytes	48953157.818	48484352.000	49422336.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 3:40:50 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\109t2ss.xml"

6/28/2008 3:40:50 PM -- Jetstress testing begins ...

6/28/2008 3:40:50 PM -- Prepare testing begins ...

6/28/2008 3:41:02 PM -- Attaching databases ...

6/28/2008 3:41:02 PM -- Prepare testing ends.

6/28/2008 3:41:02 PM -- Dispatching transactions begins ...

6/28/2008 3:41:02 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 3:41:02 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 3:41:15 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 3:41:15 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 3:41:16 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 3:41:16 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 3:41:16 PM -- Generating log files ...

6/28/2008 4:36:21 PM -- t:\sglg1 (104.6% generated), s:\sglg2 (100.4% generated), t:\sglg3 (100.2% generated), s:\sglg4 (100.6% generated), t:\sglg5 (101.0% generated), s:\sglg6 (101.4% generated), t:\sglg7 (101.8% generated), s:\sglg8 (102.0% generated), t:\sglg9 (101.0% generated), s:\sglg10 (101.4% generated), t:\sglg11 (101.8% generated), and s:\sglg12 (101.4% generated)

6/28/2008 4:36:22 PM -- Performance logging ends.

6/28/2008 4:36:23 PM -- JetInterop batch transaction stats: 13176, 12901, 12708, 13069, 13046, 12932, 13072, 12838, 13001, 12840, 13024, and 12941.

6/28/2008 4:36:23 PM -- Dispatching transactions ends.

6/28/2008 4:36:23 PM -- Shutting down databases ...

6/28/2008 4:36:25 PM -- Instance2104.1 (complete), Instance2104.2 (complete), Instance2104.3 (complete), Instance2104.4 (complete), Instance2104.5 (complete), Instance2104.6 (complete), Instance2104.7 (complete), Instance2104.8 (complete), Instance2104.9 (complete), Instance2104.10 (complete), Instance2104.11 (complete), and Instance2104.12 (complete)

6/28/2008 4:36:25 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_15.blg has 220 samples.

6/28/2008 4:36:25 PM -- Creating test report ...

6/28/2008 4:36:27 PM -- Volume s:\sgdb1 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume t:\sgdb2 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume s:\sgdb3 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume t:\sgdb4 has 0.0152 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume s:\sgdb5 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume t:\sgdb6 has 0.0139 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume s:\sgdb7 has 0.0145 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume t:\sgdb8 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume s:\sgdb9 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 4:36:27 PM -- Volume t:\sgdb10 has 0.0138 for Avg. Disk sec/Read.
 6/28/2008 4:36:27 PM -- Volume s:\sgdb11 has 0.0149 for Avg. Disk sec/Read.
 6/28/2008 4:36:27 PM -- Volume t:\sgdb12 has 0.0151 for Avg. Disk sec/Read.
 6/28/2008 4:36:27 PM -- Volume t:\sglg1 has 0.0028 for Avg. Disk sec/Write.
 6/28/2008 4:36:27 PM -- Volume t:\sglg1 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:36:27 PM -- Volume s:\sglg2 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:27 PM -- Volume s:\sglg2 has 0.0021 for Avg. Disk sec/Read.
 6/28/2008 4:36:27 PM -- Volume t:\sglg3 has 0.0028 for Avg. Disk sec/Write.
 6/28/2008 4:36:27 PM -- Volume t:\sglg3 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:36:27 PM -- Volume s:\sglg4 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:27 PM -- Volume s:\sglg4 has 0.0021 for Avg. Disk sec/Read.
 6/28/2008 4:36:27 PM -- Volume t:\sglg5 has 0.0028 for Avg. Disk sec/Write.
 6/28/2008 4:36:27 PM -- Volume t:\sglg5 has 0.0019 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Volume s:\sglg6 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:28 PM -- Volume s:\sglg6 has 0.0021 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Volume t:\sglg7 has 0.0028 for Avg. Disk sec/Write.
 6/28/2008 4:36:28 PM -- Volume t:\sglg7 has 0.0021 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Volume s:\sglg8 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:28 PM -- Volume s:\sglg8 has 0.0024 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Volume t:\sglg9 has 0.0028 for Avg. Disk sec/Write.
 6/28/2008 4:36:28 PM -- Volume t:\sglg9 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Volume s:\sglg10 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:28 PM -- Volume s:\sglg10 has 0.0019 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Volume t:\sglg11 has 0.0028 for Avg. Disk sec/Write.
 6/28/2008 4:36:28 PM -- Volume t:\sglg11 has 0.0022 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Volume s:\sglg12 has 0.0031 for Avg. Disk sec/Write.
 6/28/2008 4:36:28 PM -- Volume s:\sglg12 has 0.0023 for Avg. Disk sec/Read.
 6/28/2008 4:36:28 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
 6/28/2008 4:36:28 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
 6/28/2008 4:36:28 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
 Recovery\Performance_2008_6_28_15_41_15.xml has 219 samples queried.
 6/28/2008 4:36:28 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
 Recovery\Performance_2008_6_28_15_41_15.html is saved.
 6/28/2008 4:36:29 PM -- Performance logging begins (interval: 4000 ms).
 6/28/2008 4:36:29 PM -- Recovering databases ...
 6/28/2008 4:50:30 PM -- Performance logging ends.
 6/28/2008 4:50:30 PM -- Instance2104.1 (840.0366262), Instance2104.2 (828.0365494), Instance2104.3
 (830.786567), Instance2104.4 (834.2865894), Instance2104.5 (831.7865734), Instance2104.6
 (828.0365494), Instance2104.7 (832.7865798), Instance2104.8 (833.286583), Instance2104.9
 (832.7865798), Instance2104.10 (830.5365654), Instance2104.11 (833.0365814), and Instance2104.12
 (833.0365814)
 6/28/2008 4:50:30 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
 Recovery\SoftRecovery_2008_6_28_16_36_28.blg has 209 samples.

Stress Test Result Report - Server 6

Test summary

Overall Test Result	Pass
Machine Name	EXN6-CX4ESRP
Test Description	
Test Start Time	7/4/2008 12:14:25 PM
Test End Time	7/5/2008 12:20:42 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_51.blg

Database sizing and throughput

Achieved I/O per Second	3149.753
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2879794118656
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.006	141.097	121.518	(n/a)
Database (t:\sgdb2)	0.014	0.006	141.391	121.355	(n/a)
Database (s:\sgdb3)	0.014	0.006	141.600	121.493	(n/a)
Database (t:\sgdb4)	0.015	0.006	141.413	121.162	(n/a)
Database (s:\sgdb5)	0.014	0.006	141.351	120.925	(n/a)
Database (t:\sgdb6)	0.014	0.006	141.071	120.363	(n/a)
Database (s:\sgdb7)	0.014	0.007	141.337	121.065	(n/a)
Database (t:\sgdb8)	0.015	0.006	141.250	121.283	(n/a)
Database (s:\sgdb9)	0.015	0.007	141.515	121.039	(n/a)
Database (t:\sgdb10)	0.014	0.006	141.284	120.954	(n/a)
Database (s:\sgdb11)	0.014	0.006	141.359	120.995	(n/a)
Database (t:\sgdb12)	0.015	0.006	141.570	121.365	(n/a)
Log (t:\sglg1)	0.000	0.002	0.000	77.077	4515.900
Log (s:\sglg2)	0.000	0.002	0.000	76.515	4566.440
Log (t:\sglg3)	0.000	0.002	0.000	77.219	4522.960
Log (s:\sglg4)	0.000	0.002	0.000	76.773	4532.896

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.002	0.000	76.969	4525.683
Log (s:\sglg6)	0.000	0.002	0.000	76.064	4563.465
Log (t:\sglg7)	0.000	0.002	0.000	77.015	4523.821
Log (s:\sglg8)	0.000	0.002	0.000	76.941	4533.389
Log (t:\sglg9)	0.000	0.002	0.000	77.087	4531.978
Log (s:\sglg10)	0.000	0.002	0.000	76.472	4575.870
Log (t:\sglg11)	0.000	0.002	0.000	77.061	4533.908
Log (s:\sglg12)	0.000	0.002	0.000	76.896	4539.303

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.770	2.136	6.042
Available MBytes	28151.781	28132.000	28394.000
Free System Page Table Entries	16753219.609	16753200.000	16753340.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	76431869.332	71663616.000	77234176.000
Pool Paged Bytes	44781653.363	44011520.000	45359104.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

7/4/2008 12:14:25 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\109t2ss.xml"

7/4/2008 12:14:25 PM -- Jetstress testing begins ...

7/4/2008 12:14:25 PM -- Prepare testing begins ...

7/4/2008 12:14:38 PM -- Attaching databases ...

7/4/2008 12:14:38 PM -- Prepare testing ends.

7/4/2008 12:14:38 PM -- Dispatching transactions begins ...

7/4/2008 12:14:38 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

7/4/2008 12:14:38 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

7/4/2008 12:14:51 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1

seconds/read).

7/4/2008 12:14:51 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).

7/4/2008 12:14:52 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

7/4/2008 12:14:52 PM -- Performance logging begins (interval: 15000 ms).

7/4/2008 12:14:52 PM -- Attaining prerequisites:

7/4/2008 12:20:38 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2903556000.0 (lower bound: 2899103000.0, upper bound: none)

7/5/2008 12:20:40 PM -- Performance logging ends.

7/5/2008 12:20:40 PM -- JetInterop batch transaction stats: 336260, 336358, 337174, 336633, 336756, 336121, 336302, 336218, 337057, 337280, 336978, and 337264.

7/5/2008 12:20:40 PM -- Dispatching transactions ends.

7/5/2008 12:20:40 PM -- Shutting down databases ...

7/5/2008 12:20:42 PM -- Instance2668.1 (complete), Instance2668.2 (complete), Instance2668.3 (complete), Instance2668.4 (complete), Instance2668.5 (complete), Instance2668.6 (complete), Instance2668.7 (complete), Instance2668.8 (complete), Instance2668.9 (complete), Instance2668.10 (complete), Instance2668.11 (complete), and Instance2668.12 (complete)

7/5/2008 12:20:42 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_51.blg has 5781 samples.

7/5/2008 12:20:42 PM -- Creating test report ...

7/5/2008 12:22:36 PM -- Volume s:\sgdb1 has 0.0147 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sgdb2 has 0.0138 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sgdb3 has 0.0144 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sgdb4 has 0.0151 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sgdb5 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sgdb6 has 0.0136 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sgdb7 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sgdb9 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sgdb10 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sgdb11 has 0.0144 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sgdb12 has 0.0150 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sglg1 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:36 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sglg2 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:36 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sglg3 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:36 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sglg4 has 0.0023 for Avg. Disk sec/Write.

7/5/2008 12:22:36 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume t:\sglg5 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:36 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:36 PM -- Volume s:\sglg6 has 0.0024 for Avg. Disk sec/Write.
7/5/2008 12:22:36 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:36 PM -- Volume t:\sglg7 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:36 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:36 PM -- Volume s:\sglg8 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:36 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:36 PM -- Volume t:\sglg9 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:36 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:36 PM -- Volume s:\sglg10 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:36 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:36 PM -- Volume t:\sglg11 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:36 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:36 PM -- Volume s:\sglg12 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:36 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:36 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
7/5/2008 12:22:36 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
7/5/2008 12:22:36 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour
stress\Stress_2008_7_4_12_14_51.xml has 5757 samples queried.

Jetstress Streaming Backup Performance (no backup) - Server 6

Microsoft Exchange Server Jetstress Streaming backup Test Result Report

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance1648.1	220475.65	05:25:24	11.29
Instance1648.2	220477.65	05:16:39	11.60
Instance1648.3	220481.65	05:27:42	11.21
Instance1648.4	220489.65	05:16:43	11.60
Instance1648.5	220465.65	05:26:43	11.25
Instance1648.6	220463.65	05:16:28	11.61
Instance1648.7	220471.65	05:27:27	11.22
Instance1648.8	220449.65	05:16:29	11.61
Instance1648.9	220475.65	05:26:23	11.26
Instance1648.10	220485.65	05:16:13	11.62
Instance1648.11	220465.65	05:27:10	11.23
Instance1648.12	220481.65	05:16:18	11.62

Jetstress System Parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.011	0.001	89.778	0.002	(n/a)
Database (t:\sgdb2)	0.010	0.000	89.763	0.002	(n/a)
Database (s:\sgdb3)	0.011	0.000	89.609	0.000	(n/a)
Database (t:\sgdb4)	0.010	0.000	89.768	0.002	(n/a)
Database (s:\sgdb5)	0.011	0.000	89.774	0.002	(n/a)
Database (t:\sgdb6)	0.010	0.000	89.757	0.002	(n/a)
Database (s:\sgdb7)	0.011	0.000	89.776	0.001	(n/a)
Database (t:\sgdb8)	0.010	0.000	89.751	0.002	(n/a)
Database (s:\sgdb9)	0.011	0.000	89.778	0.002	(n/a)
Database (t:\sgdb10)	0.010	0.000	89.765	0.002	(n/a)
Database (s:\sgdb11)	0.011	0.000	89.774	0.002	(n/a)
Database (t:\sgdb12)	0.010	0.000	89.764	0.002	(n/a)
Log (t:\sglg1)	0.000	0.000	0.000	0.002	15.706
Log (s:\sglg2)	0.000	0.001	0.000	0.002	21.938
Log (t:\sglg3)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg4)	0.000	0.001	0.000	0.002	22.221
Log (t:\sglg5)	0.000	0.000	0.000	0.002	16.962
Log (s:\sglg6)	0.000	0.001	0.000	0.002	22.106
Log (t:\sglg7)	0.000	0.000	0.000	0.001	9.786
Log (s:\sglg8)	0.000	0.001	0.000	0.002	21.764
Log (t:\sglg9)	0.000	0.000	0.000	0.002	15.706
Log (s:\sglg10)	0.000	0.001	0.000	0.002	21.764
Log (t:\sglg11)	0.000	0.000	0.000	0.002	10.699
Log (s:\sglg12)	0.000	0.001	0.000	0.002	21.969

Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	2.086	0.863	2.917
Available MBytes	31339.226	31332.000	31342.000
Free System Page Table Entries	16753380.000	16753380.000	16753380.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	64817580.360	64794624.000	65093632.000
Pool Paged Bytes	49821655.353	49455104.000	50372608.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log

7/29/2008 8:18:32 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\109t2ss.xml"

7/29/2008 8:18:32 PM -- Jetstress testing begins ...

7/29/2008 8:18:32 PM -- Prepare testing begins ...

7/29/2008 8:18:45 PM -- Attaching databases ...

7/29/2008 8:18:45 PM -- Prepare testing ends.

7/29/2008 8:19:01 PM -- Performance logging begins (interval: 30000 ms).

7/29/2008 8:19:01 PM -- Streaming backup databases ...

7/30/2008 1:46:44 AM -- Performance logging ends.

7/30/2008 1:46:44 AM -- Instance1648.1 (100% processed), Instance1648.2 (100% processed), Instance1648.3 (100% processed), Instance1648.4 (100% processed), Instance1648.5 (100% processed), Instance1648.6 (100% processed), Instance1648.7 (100% processed), Instance1648.8 (100% processed), Instance1648.9 (100% processed), Instance1648.10 (100% processed), Instance1648.11 (100% processed), and Instance1648.12 (100% processed)

7/30/2008 1:46:44 AM -- [C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\StreamingBackup 2008 7 29 20 18 45.blg](#) has 655 samples.

7/30/2008 1:46:44 AM -- Creating test report ...

Performance test result report -Server 7

Test summary

Overall Test Result	Pass
Machine Name	EXN7-CX4ESRP
Test Description	
Test Start Time	6/28/2008 12:21:10 PM
Test End Time	6/28/2008 2:27:44 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_36.blg

Database sizing and throughput

Achieved I/O per Second	3137.151
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2773955051520
Database files (count)	12

Jetstress system parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.008	134.060	126.304	(n/a)
Database (t:\sgdb2)	0.014	0.007	134.313	125.981	(n/a)
Database (s:\sgdb3)	0.015	0.008	135.854	128.272	(n/a)
Database (t:\sgdb4)	0.015	0.007	135.668	127.554	(n/a)
Database (s:\sgdb5)	0.015	0.008	134.495	125.784	(n/a)
Database (t:\sgdb6)	0.014	0.007	135.604	127.002	(n/a)
Database (s:\sgdb7)	0.015	0.008	136.282	127.900	(n/a)
Database (t:\sgdb8)	0.015	0.007	133.870	125.816	(n/a)
Database (s:\sgdb9)	0.015	0.008	134.790	126.234	(n/a)
Database (t:\sgdb10)	0.014	0.007	134.723	126.145	(n/a)
Database (s:\sgdb11)	0.015	0.008	134.287	125.334	(n/a)
Database (t:\sgdb12)	0.015	0.007	134.140	126.737	(n/a)
Log (t:\sglg1)	0.000	0.003	0.000	76.862	4738.580
Log (s:\sglg2)	0.000	0.003	0.000	75.380	4777.248
Log (t:\sglg3)	0.000	0.003	0.000	77.464	4693.385
Log (s:\sglg4)	0.000	0.003	0.000	75.743	4734.039

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.003	0.000	76.819	4724.823
Log (s:\sglg6)	0.000	0.003	0.000	75.794	4767.137
Log (t:\sglg7)	0.000	0.003	0.000	77.212	4656.860
Log (s:\sglg8)	0.000	0.003	0.000	75.829	4758.859
Log (t:\sglg9)	0.000	0.003	0.000	76.913	4702.565
Log (s:\sglg10)	0.000	0.003	0.000	75.642	4763.094
Log (t:\sglg11)	0.000	0.003	0.000	76.408	4712.311
Log (s:\sglg12)	0.000	0.003	0.000	75.785	4725.014

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.614	1.969	5.115
Available MBytes	28139.338	28129.000	28356.000
Free System Page Table Entries	16752520.000	16752520.000	16752520.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	78476518.400	78028800.000	79032320.000
Pool Paged Bytes	50290909.867	50225152.000	50802688.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 12:21:10 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\109t2ss.xml"

6/28/2008 12:21:10 PM -- Jetstress testing begins ...

6/28/2008 12:21:10 PM -- Prepare testing begins ...

6/28/2008 12:21:23 PM -- Attaching databases ...

6/28/2008 12:21:23 PM -- Prepare testing ends.

6/28/2008 12:21:23 PM -- Dispatching transactions begins ...

6/28/2008 12:21:23 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

6/28/2008 12:21:23 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

6/28/2008 12:21:36 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).

6/28/2008 12:21:36 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).

6/28/2008 12:21:37 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

6/28/2008 12:21:37 PM -- Performance logging begins (interval: 15000 ms).

6/28/2008 12:21:37 PM -- Attaining prerequisites:

6/28/2008 12:27:40 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2908873000.0 (lower bound: 2899103000.0, upper bound: none)

6/28/2008 2:27:41 PM -- Performance logging ends.

6/28/2008 2:27:41 PM -- JetInterop batch transaction stats: 30114, 30177, 30297, 30281, 30190, 30393, 30318, 30072, 30189, 30241, 30064, and 30019.

6/28/2008 2:27:42 PM -- Dispatching transactions ends.

6/28/2008 2:27:42 PM -- Shutting down databases ...

6/28/2008 2:27:44 PM -- Instance788.1 (complete), Instance788.2 (complete), Instance788.3 (complete), Instance788.4 (complete), Instance788.5 (complete), Instance788.6 (complete), Instance788.7 (complete), Instance788.8 (complete), Instance788.9 (complete), Instance788.10 (complete), Instance788.11 (complete), and Instance788.12 (complete)

6/28/2008 2:27:44 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour performance\Performance_2008_6_28_12_21_36.blg has 504 samples.

6/28/2008 2:27:44 PM -- Creating test report ...

6/28/2008 2:27:51 PM -- Volume s:\sgdb1 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sgdb2 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sgdb3 has 0.0148 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sgdb4 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sgdb5 has 0.0151 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sgdb6 has 0.0140 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sgdb7 has 0.0147 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sgdb8 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sgdb9 has 0.0146 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sgdb10 has 0.0136 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sgdb11 has 0.0146 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sgdb12 has 0.0150 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sglg1 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:51 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sglg2 has 0.0031 for Avg. Disk sec/Write.

6/28/2008 2:27:51 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sglg3 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:51 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sglg4 has 0.0031 for Avg. Disk sec/Write.

6/28/2008 2:27:51 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sglg5 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:51 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume s:\sglg6 has 0.0031 for Avg. Disk sec/Write.

6/28/2008 2:27:51 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.

6/28/2008 2:27:51 PM -- Volume t:\sglg7 has 0.0028 for Avg. Disk sec/Write.

6/28/2008 2:27:51 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:51 PM -- Volume s:\sglg8 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 2:27:51 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:51 PM -- Volume t:\sglg9 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 2:27:51 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:51 PM -- Volume s:\sglg10 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 2:27:51 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:51 PM -- Volume t:\sglg11 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 2:27:51 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:51 PM -- Volume s:\sglg12 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 2:27:51 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
6/28/2008 2:27:51 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 2:27:51 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 2:27:51 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\2 hour
performance\Performance_2008_6_28_12_21_36.xml has 479 samples queried.

Soft Recovery Test Result Report - Microsoft Exchange Server Jetstress - Server 7

Soft Recovery Statistics - All

Database Instance	Log files replayed	Elapsed seconds
Instance716.1	510	842.2925775
Instance716.2	507	842.2925775
Instance716.3	500	830.5422015
Instance716.4	503	841.2925455
Instance716.5	500	822.5419455
Instance716.6	505	838.5424575
Instance716.7	500	827.2920975
Instance716.8	504	840.0425055
Instance716.9	505	840.7925295
Instance716.10	505	839.0424735
Instance716.11	504	829.5421695
Instance716.12	502	838.2924495

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.130	0.021	288.732	6.131	(n/a)
Database (t:\sgdb2)	0.136	0.019	294.167	6.093	(n/a)
Database (s:\sgdb3)	0.129	0.019	290.310	6.015	(n/a)
Database (t:\sgdb4)	0.137	0.019	293.786	6.074	(n/a)
Database (s:\sgdb5)	0.124	0.020	281.695	6.038	(n/a)
Database (t:\sgdb6)	0.129	0.018	289.426	6.087	(n/a)
Database (s:\sgdb7)	0.129	0.021	287.889	6.034	(n/a)
Database (t:\sgdb8)	0.139	0.022	292.276	6.073	(n/a)
Database (s:\sgdb9)	0.126	0.020	289.117	6.093	(n/a)
Database (t:\sgdb10)	0.130	0.020	290.637	6.087	(n/a)

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb11)	0.128	0.020	284.345	6.079	(n/a)
Database (t:\sgdb12)	0.134	0.019	292.467	6.052	(n/a)
Log (t:\sglg1)	0.008	0.022	20.092	1.047	3943.743
Log (s:\sglg2)	0.008	0.014	19.973	1.034	4105.929
Log (t:\sglg3)	0.008	0.014	19.645	1.050	4057.357
Log (s:\sglg4)	0.008	0.023	19.810	1.040	4024.536
Log (t:\sglg5)	0.008	0.015	19.687	1.057	4089.844
Log (s:\sglg6)	0.008	0.013	19.892	1.042	4011.624
Log (t:\sglg7)	0.008	0.019	19.683	1.059	4101.318
Log (s:\sglg8)	0.008	0.015	19.851	1.053	4058.483
Log (t:\sglg9)	0.008	0.020	19.889	1.046	4082.380
Log (s:\sglg10)	0.009	0.019	19.890	1.059	4069.809
Log (t:\sglg11)	0.009	0.015	19.841	1.044	3983.892
Log (s:\sglg12)	0.008	0.024	19.768	1.035	4103.511

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	16.928	6.692	33.076
Available MBytes	28458.771	28143.000	31272.000
Free System Page Table Entries	16752520.000	16752520.000	16752520.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	87577024.610	77791232.000	88662016.000
Pool Paged Bytes	51738526.476	51302400.000	52236288.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

6/28/2008 3:40:52 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\109t2ss.xml"
6/28/2008 3:40:52 PM -- Jetstress testing begins ...

6/28/2008 3:40:52 PM -- Prepare testing begins ...
6/28/2008 3:41:04 PM -- Attaching databases ...
6/28/2008 3:41:04 PM -- Prepare testing ends.
6/28/2008 3:41:04 PM -- Dispatching transactions begins ...
6/28/2008 3:41:04 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)
6/28/2008 3:41:04 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)
6/28/2008 3:41:17 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.05 seconds/read).
6/28/2008 3:41:17 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.05 seconds/write).
6/28/2008 3:41:18 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.
6/28/2008 3:41:18 PM -- Performance logging begins (interval: 15000 ms).
6/28/2008 3:41:18 PM -- Generating log files ...
6/28/2008 4:35:48 PM -- t:\sglg1 (102.2% generated), s:\sglg2 (101.6% generated), t:\sglg3 (100.2% generated), s:\sglg4 (100.8% generated), t:\sglg5 (100.2% generated), s:\sglg6 (101.2% generated), t:\sglg7 (100.2% generated), s:\sglg8 (101.0% generated), t:\sglg9 (101.2% generated), s:\sglg10 (101.2% generated), t:\sglg11 (100.8% generated), and s:\sglg12 (100.6% generated)
6/28/2008 4:35:49 PM -- Performance logging ends.
6/28/2008 4:35:49 PM -- JetInterop batch transaction stats: 12990, 12986, 12971, 12979, 12725, 12955, 12915, 12834, 12822, 12863, 12857, and 13039.
6/28/2008 4:35:49 PM -- Dispatching transactions ends.
6/28/2008 4:35:49 PM -- Shutting down databases ...
6/28/2008 4:35:51 PM -- Instance716.1 (complete), Instance716.2 (complete), Instance716.3 (complete), Instance716.4 (complete), Instance716.5 (complete), Instance716.6 (complete), Instance716.7 (complete), Instance716.8 (complete), Instance716.9 (complete), Instance716.10 (complete), Instance716.11 (complete), and Instance716.12 (complete)
6/28/2008 4:35:51 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft Recovery\Performance_2008_6_28_15_41_17.blg has 217 samples.
6/28/2008 4:35:51 PM -- Creating test report ...
6/28/2008 4:35:54 PM -- Volume s:\sgdb1 has 0.0152 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sgdb2 has 0.0139 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sgdb3 has 0.0148 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sgdb4 has 0.0151 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sgdb5 has 0.0151 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sgdb6 has 0.0139 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sgdb7 has 0.0145 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sgdb8 has 0.0153 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sgdb9 has 0.0149 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sgdb10 has 0.0139 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sgdb11 has 0.0143 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sgdb12 has 0.0153 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sglg1 has 0.0029 for Avg. Disk sec/Write.

6/28/2008 4:35:54 PM -- Volume t:\sglg1 has 0.0039 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sglg2 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume s:\sglg2 has 0.0025 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sglg3 has 0.0029 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume t:\sglg3 has 0.0026 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sglg4 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume s:\sglg4 has 0.0027 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sglg5 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume t:\sglg5 has 0.0023 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sglg6 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume s:\sglg6 has 0.0024 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sglg7 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume t:\sglg7 has 0.0025 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sglg8 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume s:\sglg8 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sglg9 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume t:\sglg9 has 0.0023 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sglg10 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume s:\sglg10 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume t:\sglg11 has 0.0028 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume t:\sglg11 has 0.0024 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Volume s:\sglg12 has 0.0031 for Avg. Disk sec/Write.
6/28/2008 4:35:54 PM -- Volume s:\sglg12 has 0.0020 for Avg. Disk sec/Read.
6/28/2008 4:35:54 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
6/28/2008 4:35:54 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
6/28/2008 4:35:54 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\Performance_2008_6_28_15_41_17.xml has 216 samples queried.
6/28/2008 4:35:54 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\Performance_2008_6_28_15_41_17.html is saved.
6/28/2008 4:35:55 PM -- Performance logging begins (interval: 4000 ms).
6/28/2008 4:35:55 PM -- Recovering databases ...
6/28/2008 4:49:58 PM -- Performance logging ends.
6/28/2008 4:49:58 PM -- Instance716.1 (842.2925775), Instance716.2 (842.2925775), Instance716.3
(830.5422015), Instance716.4 (841.2925455), Instance716.5 (822.5419455), Instance716.6 (838.5424575),
Instance716.7 (827.2920975), Instance716.8 (840.0425055), Instance716.9 (840.7925295), Instance716.10
(839.0424735), Instance716.11 (829.5421695), and Instance716.12 (838.2924495)
6/28/2008 4:49:58 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\Soft
Recovery\SoftRecovery_2008_6_28_16_35_54.blg has 210 samples.

Stress Test Result Report - Server 7

Test summary

Overall Test Result	Pass
Machine Name	EXN7-CX4ESRP
Test Description	
Test Start Time	7/4/2008 12:14:25 PM
Test End Time	7/5/2008 12:20:45 PM
Jetstress Version	08.02.0050.000
Ese Version	08.01.0240.005
Operating System	Microsoft Windows Server 2003 R2 Service Pack 2 (5.2.3790.131072)
Performance Log	C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_52.blg

Database sizing and throughput

Achieved I/O per Second	3145.139
Capacity Percentage	100%
Target I/O per Second	100%
Initial database size	2762547068928
Final database size	2879506808832
Database files (count)	12

Jetstress system parameters

Thread count	10 (per storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk subsystem performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.015	0.007	141.846	121.522	(n/a)
Database (t:\sgdb2)	0.014	0.006	140.832	120.349	(n/a)
Database (s:\sgdb3)	0.014	0.006	141.622	121.031	(n/a)
Database (t:\sgdb4)	0.015	0.006	141.215	121.107	(n/a)
Database (s:\sgdb5)	0.014	0.007	141.487	120.790	(n/a)
Database (t:\sgdb6)	0.014	0.006	141.145	120.463	(n/a)
Database (s:\sgdb7)	0.014	0.007	141.328	120.582	(n/a)
Database (t:\sgdb8)	0.015	0.006	141.153	120.487	(n/a)
Database (s:\sgdb9)	0.014	0.007	141.494	120.533	(n/a)
Database (t:\sgdb10)	0.014	0.006	141.457	120.863	(n/a)
Database (s:\sgdb11)	0.014	0.007	141.234	120.636	(n/a)
Database (t:\sgdb12)	0.015	0.006	141.153	120.812	(n/a)
Log (t:\sglg1)	0.000	0.002	0.000	77.185	4527.553
Log (s:\sglg2)	0.000	0.002	0.000	76.097	4575.762
Log (t:\sglg3)	0.000	0.002	0.000	77.057	4529.083
Log (s:\sglg4)	0.000	0.002	0.000	76.801	4534.331

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Log (t:\sglg5)	0.000	0.002	0.000	76.930	4523.916
Log (s:\sglg6)	0.000	0.002	0.000	76.319	4563.785
Log (t:\sglg7)	0.000	0.002	0.000	76.993	4522.295
Log (s:\sglg8)	0.000	0.002	0.000	76.588	4551.520
Log (t:\sglg9)	0.000	0.002	0.000	76.898	4532.268
Log (s:\sglg10)	0.000	0.002	0.000	76.335	4557.979
Log (t:\sglg11)	0.000	0.002	0.000	77.002	4533.750
Log (s:\sglg12)	0.000	0.002	0.000	76.668	4543.553

Host system performance

Counter	Average	Minimum	Maximum
% Processor Time	3.782	1.879	11.932
Available MBytes	28146.205	28116.000	28391.000
Free System Page Table Entries	16753033.681	16753020.000	16753160.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	76484881.968	72839168.000	77479936.000
Pool Paged Bytes	45279461.849	45051904.000	46145536.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test log

7/4/2008 12:14:25 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\109t2ss.xml"

7/4/2008 12:14:25 PM -- Jetstress testing begins ...

7/4/2008 12:14:25 PM -- Prepare testing begins ...

7/4/2008 12:14:38 PM -- Attaching databases ...

7/4/2008 12:14:38 PM -- Prepare testing ends.

7/4/2008 12:14:38 PM -- Dispatching transactions begins ...

7/4/2008 12:14:38 PM -- Database cache settings: (minimum: 384.0 MB, maximum: 3.0 GB)

7/4/2008 12:14:38 PM -- Database flush thresholds: (start: 30.7 MB, stop: 61.4 MB)

7/4/2008 12:14:52 PM -- Database read latency thresholds: (average: 0.02 seconds/read, maximum: 0.1 seconds/read).

7/4/2008 12:14:52 PM -- Log write latency thresholds: (average: 0.01 seconds/write, maximum: 0.1 seconds/write).

7/4/2008 12:14:53 PM -- Operation mix: Sessions 10, Inserts 40%, Deletes 30%, Replaces 5%, Reads 25%, Lazy Commits 55%.

7/4/2008 12:14:53 PM -- Performance logging begins (interval: 15000 ms).

7/4/2008 12:14:53 PM -- Attaining prerequisites:

7/4/2008 12:20:41 PM -- \MSEExchange Database(JetstressCmd)\Database Cache Size, Last: 2902761000.0 (lower bound: 2899103000.0, upper bound: none)

7/5/2008 12:20:43 PM -- Performance logging ends.

7/5/2008 12:20:43 PM -- JetInterop batch transaction stats: 336732, 335252, 336709, 335968, 336461, 336068, 336176, 335978, 336377, 336692, 335984, and 335806.

7/5/2008 12:20:43 PM -- Dispatching transactions ends.

7/5/2008 12:20:43 PM -- Shutting down databases ...

7/5/2008 12:20:45 PM -- Instance2992.1 (complete), Instance2992.2 (complete), Instance2992.3 (complete), Instance2992.4 (complete), Instance2992.5 (complete), Instance2992.6 (complete), Instance2992.7 (complete), Instance2992.8 (complete), Instance2992.9 (complete), Instance2992.10 (complete), Instance2992.11 (complete), and Instance2992.12 (complete)

7/5/2008 12:20:45 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour stress\Stress_2008_7_4_12_14_52.blg has 5779 samples.

7/5/2008 12:20:45 PM -- Creating test report ...

7/5/2008 12:22:39 PM -- Volume s:\sgdb1 has 0.0147 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sgdb2 has 0.0137 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sgdb3 has 0.0144 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sgdb4 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sgdb5 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sgdb6 has 0.0136 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sgdb7 has 0.0143 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sgdb8 has 0.0149 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sgdb9 has 0.0145 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sgdb10 has 0.0136 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sgdb11 has 0.0142 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sgdb12 has 0.0148 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sglg1 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:39 PM -- Volume t:\sglg1 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sglg2 has 0.0023 for Avg. Disk sec/Write.

7/5/2008 12:22:39 PM -- Volume s:\sglg2 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sglg3 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:39 PM -- Volume t:\sglg3 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sglg4 has 0.0024 for Avg. Disk sec/Write.

7/5/2008 12:22:39 PM -- Volume s:\sglg4 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sglg5 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:39 PM -- Volume t:\sglg5 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume s:\sglg6 has 0.0023 for Avg. Disk sec/Write.

7/5/2008 12:22:39 PM -- Volume s:\sglg6 has 0.0000 for Avg. Disk sec/Read.

7/5/2008 12:22:39 PM -- Volume t:\sglg7 has 0.0022 for Avg. Disk sec/Write.

7/5/2008 12:22:39 PM -- Volume t:\sglg7 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:39 PM -- Volume s:\sglg8 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:39 PM -- Volume s:\sglg8 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:39 PM -- Volume t:\sglg9 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:39 PM -- Volume t:\sglg9 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:39 PM -- Volume s:\sglg10 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:39 PM -- Volume s:\sglg10 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:39 PM -- Volume t:\sglg11 has 0.0022 for Avg. Disk sec/Write.
7/5/2008 12:22:39 PM -- Volume t:\sglg11 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:39 PM -- Volume s:\sglg12 has 0.0023 for Avg. Disk sec/Write.
7/5/2008 12:22:39 PM -- Volume s:\sglg12 has 0.0000 for Avg. Disk sec/Read.
7/5/2008 12:22:39 PM -- Test has 0 Maximum Database Page Fault Stalls/sec.
7/5/2008 12:22:39 PM -- Test has 0 Database Page Fault Stalls/sec samples higher than 0.
7/5/2008 12:22:39 PM -- C:\CX4-2\7server\ESRP 10t2ss 7 Server\24 Hour
stress\Stress_2008_7_4_12_14_52.xml has 5755 samples queried.

Jetstress Streaming Backup Performance (no backup) - Server 7

Microsoft Exchange Server Jetstress Streaming backup Test Result Report

Database Instance	Database Size (MBytes)	Elapsed Backup Time	MBytes Transferred/sec
Instance2360.1	220491.65	05:25:11	11.30
Instance2360.2	220479.65	05:16:36	11.61
Instance2360.3	220461.65	05:27:37	11.22
Instance2360.4	220485.65	05:16:39	11.60
Instance2360.5	220477.65	05:26:39	11.25
Instance2360.6	220479.65	05:16:24	11.61
Instance2360.7	220475.65	05:27:29	11.22
Instance2360.8	220471.65	05:16:37	11.61
Instance2360.9	220485.65	05:26:09	11.27
Instance2360.10	220465.65	05:16:01	11.63
Instance2360.11	220481.65	05:27:01	11.24
Instance2360.12	220477.65	05:16:13	11.62

Jetstress System Parameters

Thread count	10 (per-storage group)
Log buffers	9000
Minimum database cache	384.0 MB
Maximum database cache	3072.0 MB
Insert operations	40%
Delete operations	30%
Replace operations	5%
Read operations	25%
Lazy commits	55%

Disk Subsystem Performance

LogicalDisk	Avg. Disk sec/Read	Avg. Disk sec/Write	Disk Reads/sec	Disk Writes/sec	Avg. Disk Bytes/Write
Database (s:\sgdb1)	0.011	0.001	89.784	0.002	(n/a)
Database (t:\sgdb2)	0.010	3.08755973893589E-05	89.764	0.002	(n/a)
Database (s:\sgdb3)	0.011	0.000	89.709	0.000	(n/a)
Database (t:\sgdb4)	0.010	0.000	89.767	0.002	(n/a)
Database (s:\sgdb5)	0.011	0.000	89.778	0.002	(n/a)
Database (t:\sgdb6)	0.010	0.000	89.764	0.002	(n/a)
Database (s:\sgdb7)	0.011	0.000	89.779	0.001	(n/a)
Database (t:\sgdb8)	0.010	0.000	89.761	0.002	(n/a)
Database (s:\sgdb9)	0.011	0.000	89.782	0.002	(n/a)
Database (t:\sgdb10)	0.010	0.001	89.758	0.002	(n/a)
Database (s:\sgdb11)	0.011	0.000	89.781	0.002	(n/a)
Database (t:\sgdb12)	0.010	0.000	89.763	0.002	(n/a)
Log (t:\sglg1)	0.000	0.000	0.000	0.002	15.751
Log (s:\sglg2)	0.000	0.001	0.000	0.002	16.962
Log (t:\sglg3)	0.000	0.000	0.000	0.000	6.263
Log (s:\sglg4)	0.000	0.001	0.000	0.002	16.962
Log (t:\sglg5)	0.000	0.000	0.000	0.002	10.699
Log (s:\sglg6)	0.000	0.001	0.000	0.002	22.013
Log (t:\sglg7)	0.000	0.000	0.000	0.001	10.128
Log (s:\sglg8)	0.000	0.001	0.000	0.002	16.883
Log (t:\sglg9)	0.000	0.000	0.000	0.002	10.699
Log (s:\sglg10)	0.000	0.001	0.000	0.002	19.914
Log (t:\sglg11)	0.000	0.000	0.000	0.002	14.845
Log (s:\sglg12)	0.000	0.001	0.000	0.002	22.221

Host System Performance

Counter	Average	Minimum	Maximum
% Processor Time	2.012	0.842	2.595
Available MBytes	31335.189	31329.000	31337.000
Free System Page Table Entries	16753370.000	16753370.000	16753370.000
Transition Pages RePurposed/sec	0.000	0.000	0.000
Pool Nonpaged Bytes	64930823.817	64913408.000	65142784.000
Pool Paged Bytes	49822868.519	49393664.000	50348032.000
Database Page Fault Stalls/sec	0.000	0.000	0.000

Test Log

7/29/2008 8:18:35 PM -- Command Line: "C:\PROGRA~1\EXCHAN~1\jetstresscmd.exe" /c "C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\109t2ss.xml"

7/29/2008 8:18:35 PM -- Jetstress testing begins ...

7/29/2008 8:18:35 PM -- Prepare testing begins ...

7/29/2008 8:18:48 PM -- Attaching databases ...

7/29/2008 8:18:48 PM -- Prepare testing ends.

7/29/2008 8:19:04 PM -- Performance logging begins (interval: 30000 ms).

7/29/2008 8:19:04 PM -- Streaming backup databases ...

7/30/2008 1:46:42 AM -- Performance logging ends.

7/30/2008 1:46:42 AM -- Instance2360.1 (100% processed), Instance2360.2 (100% processed), Instance2360.3 (100% processed), Instance2360.4 (100% processed), Instance2360.5 (100% processed), Instance2360.6 (100% processed), Instance2360.7 (100% processed), Instance2360.8 (100% processed), Instance2360.9 (100% processed), Instance2360.10 (100% processed), Instance2360.11 (100% processed), and Instance2360.12 (100% processed)

7/30/2008 1:46:42 AM -- [C:\CX4-2\7server\ESRP 10t2ss 7 Server\Streaming NOBU\StreamingBackup 2008 7 29 20 18 48.blg](#) has 655 samples.

7/30/2008 1:46:42 AM -- Creating test report ...