

NotesBench Disclosure Report
for
IBM @server xSeries 225
using
Lotus Domino Server 6.0
and
Windows 2000 Server

Results Submitted August 21, 2003

Results Certified August 28, 2003



IBM Corporation

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Edition Notice

Executive Summary

The IBM® @server™ xSeries® 225 server demonstrated leadership performance running Lotus® Domino® Server Release 6.0 on Microsoft® Windows® 2000 Server. The results detailed in this report were obtained using the NotesBench R6Mail-Only workload.

Test Script	Maximum Users	NotesMark (tpm)	Ave. Response Time (sec)	\$/User	\$/NotesMark
R6Mail-Only	14,500	21,481	0.264	\$4.54	\$3.07

The xSeries 225 server was configured with two 3.06GHz¹ Intel® Xeon™ Processor DP, 4GB of PC2100 memory, and 73 hard disk drives. Two Domino partitions, which were part of the same domain, shared a directory containing more than 29,000 person documents. For complete configuration details, see Appendix A: Overall Test Setup and Software Versions.

The server under test, configured with two Domino partitions, supported an R6Mail-Only workload of 14,500 active mail users (see price/performance results² above).

IBM's xSeries Server Performance Laboratory in Research Triangle Park, NC, conducted the benchmark in August, and KMDS Technical Associates, Inc., audited and certified the results in August 2003.

NotesBench provides an objective method for evaluating the performance of different platforms running Lotus Domino Server. NotesBench generates a transactions-per-minute (tpm) throughput metric, called a NotesMark, for each test, along with a value for the maximum capacity (number of users) supported, and the average response time.

Benchmarking Objectives

The benchmark objective was to provide customers with information on how to utilize the capability of the xSeries 225 system as a Domino Server 6.0 mail server configured with the IBM ServeRAID-4H Ultra160 SCSI Adapter for RAID-1 data redundancy.

¹ GHz only measures microprocessor internal clock speed, not application performance. Many factors affect application performance.

² The price/performance results are based on IBM's published list prices.

Test Methodologies

Test Setup and Hardware/Software Configuration

The xSeries 225 system under test (SUT) was configured with two 3.06GHz Xeon DP processors (512KB of ECC full-speed L2 write-back cache with Intel Hyper_Threading Technology), 4GB of PC2100 memory, and seventy-three 36.4GB 15K rpm Ultra320 hard disk drives. Five RAID-1 arrays, each composed of 14 hard drives, which contained the mail database files, were connected to a channel on the ServeRAID-4H Ultra160 SCSI Adapter. Three hard drives, one of which was contained in a RAID-0 array that was used as the boot disk and two of which were contained in a RAID-1 array drive that was used to hold the Domino executable codes and data directory, were connected to a channel on the integrated SCSI interface to a ServeRAID-5i SCSI controller. A more detailed description of the configuration of the RAID-1 arrays is provided in Appendix A.

The network consisted of one LAN segment using one 28-port Extreme Networks Summit 7i switch.

The xSeries 225 system under test ran Microsoft Windows 2000 Server and Domino Server 6.0.

The RAID controller configuration value for Stripe Unit Size was set at 16KB. Write-back cache was enabled for all RAID-1 arrays.

The following NOTES.INI parameters were modified as recommended in the NotesBench operator's manual.

R6Mail-Only Workload
Server_Max_Concurrent_Trans=1000
NSF_DBcache_MaxEntries=10000
NSF_Buffer_Pool_Size_MB=320
MailLogToEventsOnly=1
Log_MailRouting=10
Log_Sessions=0
Server_Pool_Tasks=100
Max_Users=10000
DBMaxEntries=10000

In the Server-Configuration document for both partitions, four mail.boxes were used on each partition for mail routing.

The following parameters were added to suppress database activity logging after long runs and to capture server console output:

```
No_Force_Activity_Logging=1
Server_Show_Performance=1
Tcplp_TcplpAddress=0,192.1.1.x:1352
```

Debug_Outfile=j:\tmp\SUTy_INFO.TXT

In the last two lines above, x is the net address and y is the partition number for the corresponding partition. All Notes server tasks were disabled except Router.

All Domino mail database files were located on the D:, E:, F:, G:, and H: RAID-1 arrays. The Domino executable codes, data directory and mail link files were located on the J: RAID-1 array.

Test Procedures

Several trial runs were conducted with the system under test to attempt to exhaust at least one of the system resources: processor, memory or disk subsystem. When average user response time reached an unacceptable level before any one of these resources had been fully utilized, an additional resource was installed. System resource utilization was monitored using Windows 2000 Performance Monitor (PERFMON), which enabled the system configuration to be optimized while balancing system resources.

The 14,500 users were distributed over 12 clients. Clients 1 and 7 added 1,250 users to the system under test. Clients 2 to 6 and 8 to 12 added 1,200 users to the system under test. The test ran for 13 hours and 20 minutes, including ramp-up. The actual ramp-up period from startup of child 1 to the point when all 14,500 users were reflected in the clients' result files was approximately 7 hours. The length of the ramp-up period was determined by observing the server console, which displayed the total number of users as 14,500. The test ran for more than 6 hours after ramp-up. During the test runs, the tools used to determine steady state included the child driver RES files, and Domino Server statistics output to the server console on a minute-by-minute basis.

We confirmed steady state when the number of users on the SUT Domino Server console reached the intended number of users. We also used the Show Stat Mail command on the server to verify that at least 90 percent of the mail generated during the test period was delivered to the local mail databases during the test period.

To ensure that the test results were reproducible, all tests were repeated, and the results were compared and were found to be consistent.

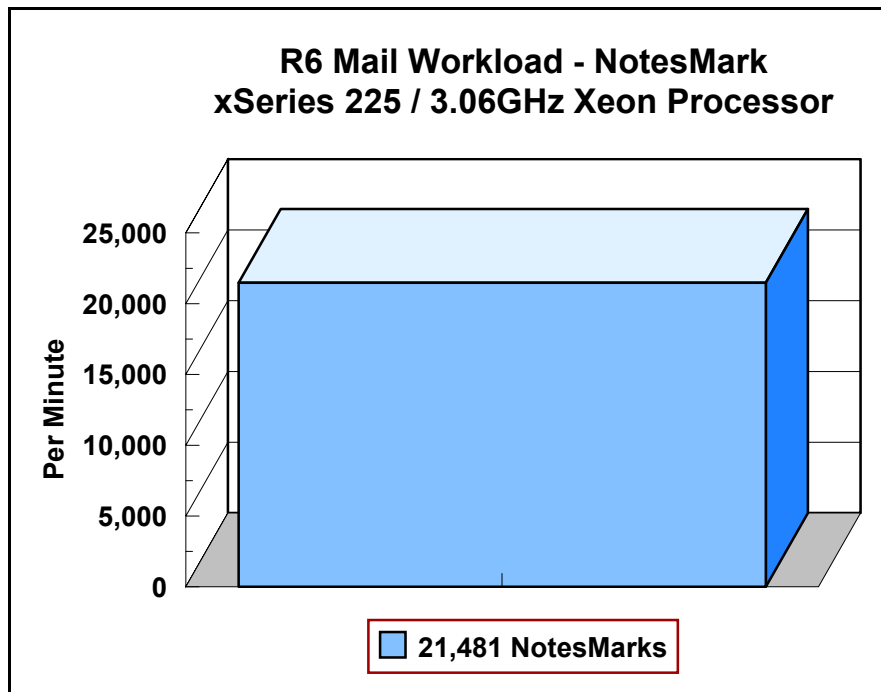
Other NotesBench Tests

IBM intends to continue conducting NotesBench measurements to further optimize and exploit the performance capability of the xSeries product line running Domino Server 6.0.

Data

xSeries 225 NotesMark Value for R6Mail-Only Test

The xSeries 225 server demonstrated that it can support 14,500 concurrent, active users with this workload. The NotesMark throughput value was 21,481. Average response time was 0.264 seconds. The test ran error-free for a period of more than six hours.



The R6Mail workload executes Notes transactions that model a server for mail users at sites that rely only on mail for communication. The resulting capacity metric for a mail-only server is the maximum number of users that can be supported before the average user response time becomes unacceptable.

The Domino R6Mail-Only test script models an active user who is reading and sending mail. The script contains an average of 15 minutes of waiting; thus, the average user would execute this script a maximum of four times each hour. For each iteration of the test script, there are 5 documents read, 2 documents updated, 2 documents deleted, 2 documents added, 1 view scrolling operation, 1 database opened and closed, 1 view opened and closed, looking up of recipients and sending an invitation every 30 minutes, as well as some miscellaneous operations. In sending messages, each user creates and sends a mail message to NumMessageRecipients no more frequently than every 90 minutes. About every 90 minutes, each user creates a meeting invitation and responds to an invitation.

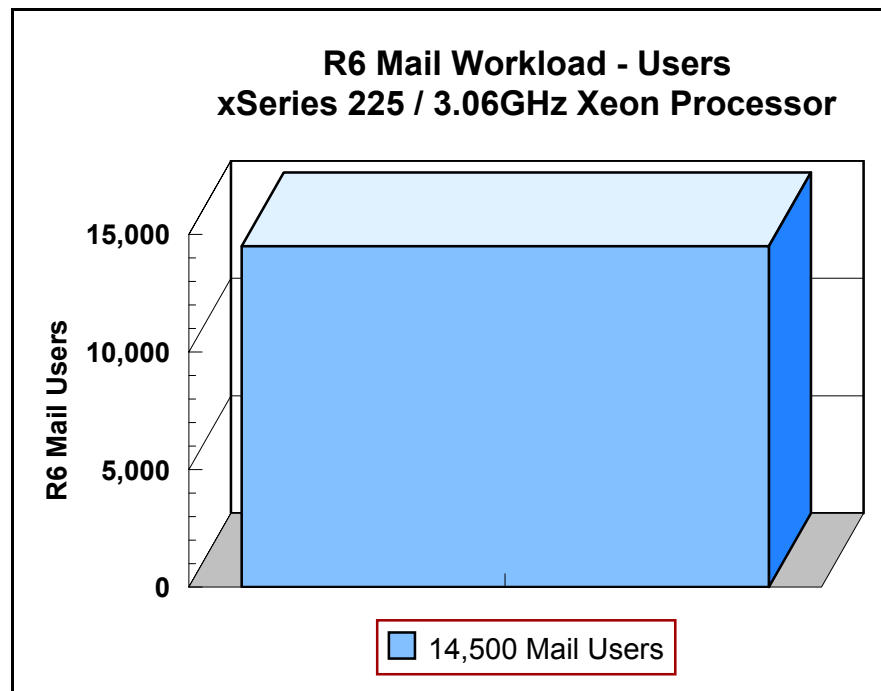
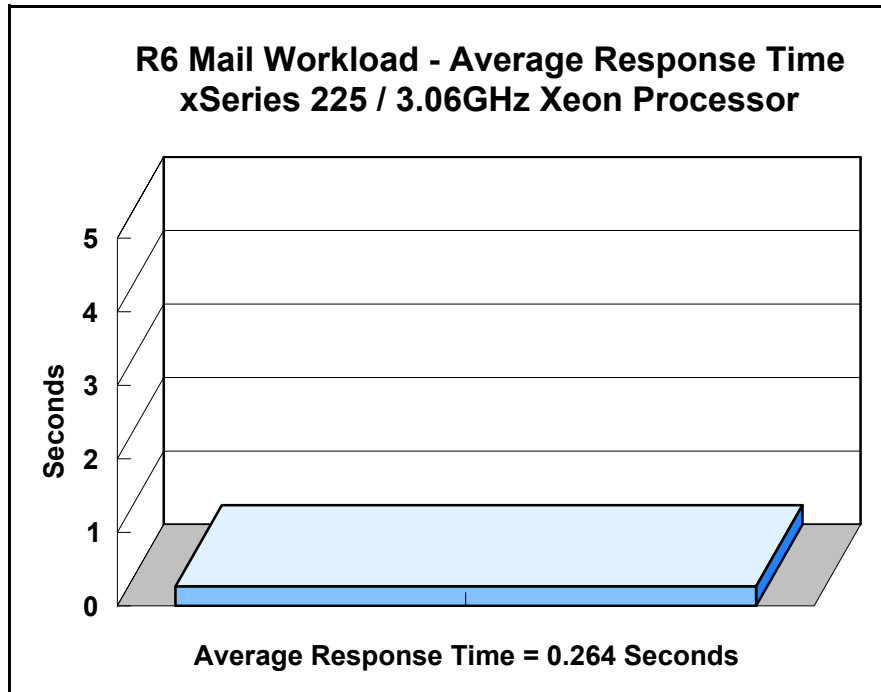
NotesNum Output for R6Mail-Only Test

Min Start Time = 08/12/2003 11:48:33 AM Max Stop Time = 08/13/2003 01:13:05 AM

Total Test Errors = 0

Total Test Time = 48300 sec

Test Run: Users = 14500 NotesMark = 21481 Response Time = 264 msec (08/12/2003 06:13:00 PM to 08/13/2003 12:58:00 AM)



Analysis

When configured as described in this report, the xSeries 225 server demonstrated that it can manage the intense resource usage during ramp-up to 14,500 concurrent R6Mail users with no errors at the clients. During the steady-state period on one of the successful 14,500-user runs, the average CPU utilization was 86.4 percent. The average available memory was 828.8MB.

The transaction logging option was not enabled for this audit run. When this option is enabled, we recommend placing the transaction logging directory on a dedicated disk that is attached to a less-busy adapter on a less-busy PCI bus to improve response time.

Conclusions

The test results demonstrate that the xSeries 225 configured as described in this report can support up to 14,500 concurrent, active R6Mail users with a response time well below that permitted by the test criteria.

These results are based on running the xSeries 225 as a dedicated Domino server. The addition of other application workloads will affect the number of users supported as well as the response time. Achieving optimum performance in a customer environment is highly dependent upon selecting adequate processor power, memory and disk storage as well as balancing the configuration of that hardware and appropriately tuning the operating system and Domino software.

Statement by Auditor

The original “Lotus NotesBench Test Results Report Certification Letter” was signed by Daryl K. Thompson, NotesBench Auditor for KMDS Technical Associates, Inc., and is on file at IBM.

Appendix A: Overall Test Setup and Software Versions

Number of Client Systems

For the R6Mail-Only test, 13 driver systems were used. Twelve systems were configured as child drivers 1 through 12; one system was used as parent driver to control the run.

The disk configuration used for the child driver systems follows:

Child drivers 1-12:

- Pentium III 500MHz with 512MB memory
- C: Partition (2GB - NTFS) - Windows 2000 /SP2
- D: Partition (6.5GB - NTFS) - Notes 6.0 client

Parent driver:

- Pentium III 500MHz with 512MB memory
- C: Partition (2GB - NTFS) - Windows 2000 /SP2 and Notes 6.0 client

Number of Server Platforms

One server platform, the xSeries 225 with two 3.06GHz Xeon DP processors and 4GB of memory, was benchmarked.

The disk configuration used for the system under test follows:

- C: Single disk drive (33.9GB - NTFS) - Windows 2000 Server (Boot Partition)
- D: Partition (237.7GB - NTFS) - Domino mail files
- E: Partition (237.7GB - NTFS) - Domino mail files
- F: Partition (237.7GB - NTFS) - Domino mail files
- G: Partition (237.7GB - NTFS) - Domino mail files
- H: Partition (237.7GB - NTFS) - Domino mail files
- J: Partition (33.9GB - NTFS) - Domino executables and Domino mail data subdirectory

Network

The network consisted of one segment. All child drivers, parent and SUT were connected to one of 28 ports on the Extreme Networks Summit 7i switch. One Intel PRO/1000 Gigabit Adapter with the embedded 10/100/1000 Mbps Ethernet Controller was used in the xSeries 225 system under test.

Software Versions

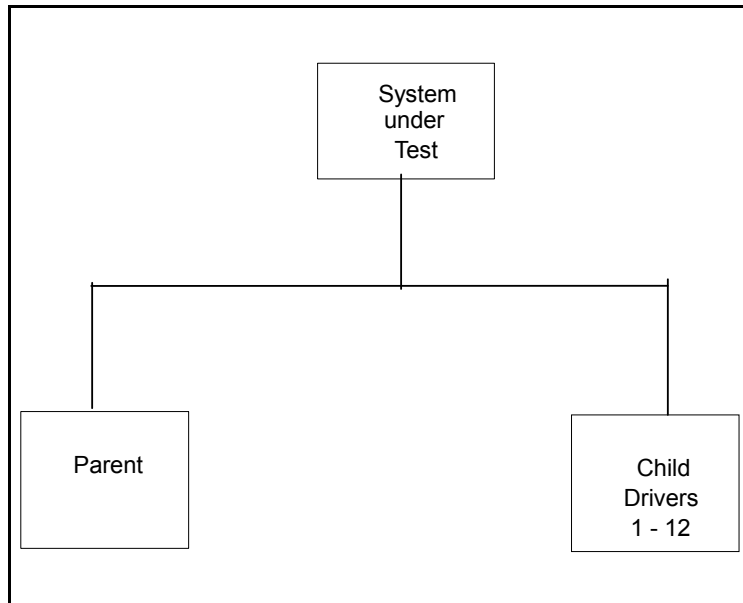
Software versions used on the system under test were as follows:

- Microsoft Windows 2000 Server and Service Pack 3
- Lotus Domino Server Release 6.0 for Windows 2000

Software versions used on the child and parent drivers were as follows:

- Microsoft Windows 2000 Professional for child drivers and Windows 2000 Server for the parent systems
- Lotus Domino Client Release 6.0 for Windows 2000
- NotesBench Version 6.0 - Windows/32

Test Setup Diagram



Details of Configuration

System Under Test	Parent Source Driver and Child Drivers 1-12
xSeries 225	IBM IntelliStation M Pro
2 x 3.06GHz Xeon DP Processor	1 x 500MHz Pentium III
4GB Memory	512MB Memory
73 x 36.4GB Drives	1 x 9.1GB Drive
1 x ServeRAID-5i SCSI Controller 2 x ServeRAID-4H Ultra160 SCSI Adapter	
Embedded 10/100/1000Mbps Ethernet Controller Intel PRO/1000 Gigabit Adapter	Integrated 10/100 Ethernet Controller
Microsoft Windows 2000 Server	Microsoft Windows 2000 Professional

Appendix B: System Configurations

Server under Test	
System	xSeries 225
Processor	2 x 3.06GHz Xeon DP Processor
Memory	4GB
Cache	512KB ECC Full-Speed L2 Cache per Processor
RAID Controller	2 x ServeRAID-4H Ultra160 SCSI Adapter, 1 x ServeRAID-5i SCSI Controller
Disk Drive	70 x 36.4GB 15K rpm (configured as five RAID-1 arrays) 3 x 36.4GB 15K rpm (two drives configured as a RAID-1 array, and one drive configured as RAID-0 for system boot drive)
Network Interface	Embedded 10/100/1000Mbps Ethernet Controller, Intel PRO/1000 Gigabit Adapter
I/O	PCI Bus (64-Bit)
Operating System	Microsoft Windows 2000 Server with Service Pack 3
Notes	Lotus Domino Server Release 6.0 for Windows 2000

Parent Source Driver and Child Drivers 1 - 12	
System	IBM IntelliStation M Pro
Processor	1 x 500MHz Pentium III
Memory	512MB
Disk Drive	1 x 9.1GB
Network Interface	Integrated 10/100 Ethernet Controller
I/O	PCI Bus
Operating System	Microsoft Windows 2000 Professional with Service Pack 2
Notes	Lotus Domino Client Release 6.0 for Windows 2000
NotesBench	NotesBench Version 6.0 - Windows/32

Appendix C: Operating System Parameters

In the system under test, the following registry variables were changed from their default values of 2 to 0:

HKEY_LOCAL_MACHINE/System/CurrentControlSet/Control/PriorityControl/Win32PrioritySeparation:
REG_DWORD:0

HKEY_LOCAL_MACHINE/System/CurrentControlSet/Control/SessionManager/MemoryManager/
LargeSystemCache: REG_DWORD:0


```

LOG_REPLICATION=0
LOG_SESSIONS=0
ExistingServerName=CN=nchild22/O=ibm
KeyFilename=j:\domino\sut1\sut1.id
ServerKeyFileName=sut1.id
MailServer=CN=sut1/O=ibm
Domain=IBM
Admin=CN=administrator/O=ibm
NAMELOOKUP_TRUST_DIRCAT=0
TemplateSetup=6010
Setup=6023
ServerSetup=6010
CleanSetup=1
PhoneLog=2
Log=log.nsf, 1, 0, 7, 40000
ServerName=sut1/ibm
ServerNameNative=02F402F4737574312F69626D
FormulaTimeout=120
NSF_QUOTA_METHOD=2
TRANSLOG_AutoFixup=1
TRANSLOG_UseAll=0
TRANSLOG_Style=0
TRANSLOG_Performance=2
TRANSLOG_Status=0
server_show_performance=1
mailuseprocesses=0
ServerController=0
FaultRecovery=0
MTEnabled=0
EventSetup=600
CONSOLE_sut1/ibm=80 300 7 176 16 844 347
;=====
TcpIp_TcpipAddress=0,192.1.1.222:1352
MailLogToEventsOnly=1
Log_mailRouting=10
DBMaxEntries=10000
Max_users=10000
NSF_DBCache_MaxEntries=10000
Server_Pool_Tasks=100
Server_max_Concurrent_Trans=1000
No_Force_Activity_Logging=1
NSF_Buffer_Pool_Size_MB=320
MailCompactDisabled=1
Update_No_FullText=1
Debug_OutFile=j:\temp\sut1_info.txt
;=====
CONSOLE_LOG_ENABLED=1

```

NOTES.INI for Second Partition Server

[Notes]

```

Directory=j:\domino\sut2
KitType=2
UserName=administrator
CompanyName=ibm
NotesProgram=j:\domino
InstallType=4
FaultRecovery_Build=Build V60_09252002
DSTLAW=4,1,1,10,-1,1
FileDlgDirectory=C:\Documents and Settings\Administrator\My Documents
SHARED_MAIL=0
DisableLDAPOnAdmin=1
Passthru_LogLevel=0
Console_LogLevel=2
DDETimeout=10

```



```

mailuseprocesses=0
ServerController=0
FaultRecovery=0
MTEnabled=0
EventSetup=600
CONSOLE_sut2/ibm=80 300 7 187 389 855 720
;
=====
TcpIp_TcpipAddress=0,192.1.3.222:1352
MailLogToEventsOnly=1
Log_mailRouting=10
DBMaxEntries=10000
Max_users=10000
NSF_DBCache_MaxEntries=10000
Server_Pool_Tasks=100
Server_max_Concurrent_Trans=1000
No_Force_Activity_Logging=1
NSF_Buffer_Pool_Size_MB=320
MailCompactDisabled=1
Update_No_FullText=1
Debug_OutFile=j:\temp\sut2_info.txt
;
=====
CONSOLE_LOG_ENABLED=1

```

NOTES.INI for Child 1

[Notes]

```

Directory=D:\Notes\data
KitType=1
InstallType=2
;=====mail=====
NthIteration=6
Tmp=Notestmp
;MaxSessions=100
;NumAddLocalReplica=1
;NumDeleteLocalReplica=1
;NumStampLocalReplica=1
;NumUpdateLocalReplica=1
NumMessageRecipients=3
NumMailNotesPerUser=100
;AttachmentSize=50000
;LargeMessageSize=32000
NodeName=nchild11
MailTemplate=sut1!!mail6.ntf
;=====iNotes=====
;MailTemplate=iNotes5.ntf
;NBiNotes=1
;HTTPNABView=$People/M
;WebAuthenticationOff=1
;WebPreferencesOff=1
;HTTPHost=sut.ibm.com
;RecipientDomain=ibm.com
;Domail=ibm.com
;=====
USESERVERNAB=1
ResultsDirectory=\\parent3\c$\results
DEBUG_OUTFILE=\\parent3\c$\results\res1
;NumNotesLocalReplica=90
;NumSharedNotes=900
NormalMessageSize=1000
MaxDocToDelete=10000
;nb_dbdir=mail\
$DialogMode=0
ThreadStagger=0.4
;ThreadStagger=0.3
;nopause=1
;=====imap=====
;NodeName=nchild11

```

```

;USESERVERNAB=1
;domain=ibm
;Tmp=Notestmp
;NthIteration=6
;MailTemplate=mail6.ntf
;imap_session_timeout=30
;MaxSessions=100
;NumMailNotesPerUser=100
;NumMessageRecipients=3
;NumNotesLocalReplica=90
;NumSharedNotes=900
;MailRecipientPercentUser=50
;MailRecipientPercentVolume=50
;mailrecipientbeginnumber=1
;mailrecipientendnumber=10000
;r5imap_loop_n=1000
;clienthost=nchild11.ibm.com
;smtphost=sut.ibm.com
;ldaphost=sut.ibm.com
;imaphost=sut.ibm.com
;recipientdomain=ibm.com
;messagelinesize=100
;normalmessagesize=50000
;ScriptIterationLimit=1
;NBTestReset=0
;nopause=0
;enable_break=1
;KillProcess=1
;Imail_No_APC=1
;ResultsDirectory=\\parent1\c$\results
;DEBUG_OUTFILE=\\parent1\c$\results\res11
;ThreadStagger=4
;nabentries=10000
;
=====
;
FaultRecovery_Build=Build V60_09252002
CONSOLE_LOG_ENABLED=1
DSTLAW=4,1,1,10,-1,1
UPDATE_TIMER=08/08/2003 06:59:42 AM
SUDIALOG_ON=0
Timezone=5
DST=1
MailType=0
$$HasLANPort=1
WWWDSPP_SYNC_BROWSERCACHE=0
WWWDSPP_PREFETCH_OBJECT=0
EnableJavaApplets=1
EnablePlugins=1
Preferences=-2147480463
AltNameLanguage=en
ContentLanguage=en-US
WeekStart=1
ViewWeekStart=2
NavWeekStart=1
XLATE_CSID=52
SPELL_LANG=1033
SPELL_PREFERENCES=0
Region=en-US
DatePickerDirection=0
Passthru_LogLevel=0
Console_LogLevel=2
VIEWIMP1=Lotus 1-2-3,0,_IWKSV,,123,.WK1,.WK3,.WK4,.WKS,.WR1,.WRK,,4,
VIEWIMP2=Structured Text,0,_ISTR,,CGN,.LTR,.STR,,1,
VIEWIMP3=Tabular Text,0,_ITAB,,PRN,.RPT,.TAB,.TXT,,1,
VIEWIMP4=vCard,0,_IVCRD,,.VCF,,1,
VIEWEXP1=Lotus 1-2-3,0,_XWKS,,123,.WK1,.WK3,.WK4,.WKS,.WR1,.WRK,,4,
VIEWEXP2=Structured Text,0,_XSTR,,CGN,.LTR,.STR,,1,
VIEWEXP3=Tabular Text,1,_XTAB,,CGN,.LTR,.RPT,.TAB,,1,

```



```

FileDlgDirectory=C:\Documents and Settings\Administrator\My Documents
NAMES=names.nsf
ReplDefFullDocs=1
ReplDefPartDocsLimit=0
ReplDefPartDocsLimitAmt=40
ReplDefPartAtchLimit=0
ReplDefPartAtchLimitAmt=40
ReplDefFullText=0
ReplDefEncrypt=1
ReplDefEncryptType=2
ReplDefReplImmed=1
$headlineDisableHeadlines=0
PromptForLocation=0
EmptyTrash=0
UNICODE_Display=1
AltCalendar=0
MIMEPromptMultilingual=1
MIMEMultilingualMode=1
QuotePrefix=>
QuoteLineLength=70
EnableActiveXInBrowser=1
EnableJavaScript=1
EnableJavaScriptErrorDialogs=1
EnableLiveConnect=1
BackgroundPrinting=1
ShowAccelerators=1
DisableImageDithering=1

```

NOTES.INI for Parent Source Driver

```

[Notes]
KitType=1
Directory=c:\notes\data
InstallType=2
;
;
; =====
; Begin Notesbench variables for parent 1
;
; *****
NodeName=parent3

Runtime=800
ChildStagger=1,1;17,2-3;21,4;22,5;26,6;28,7;30,8;38,9;43,10;49,11;52,12;53,13;58,14
;ChildStagger=1,1;12,2-4
NumClients1=1250
NumClients2=1200
NumClients3=1200
NumClients4=1200
NumClients5=1200
NumClients6=1200
NumClients7=1250
NumClients8=1200
NumClients9=1200
NumClients10=1200
NumClients11=1200
NumClients12=1200
NumClients13=1300
NumClients14=1200
NumClients15=500
NumClients16=500
NumClients17=500
NumClients18=500
NumClients19=500
NumClients20=500
ResultsDirectory=c:\results
DEBUG_OUTFILE=c:\results\notesnum_sut1.txt

```

```

;-----End
;*****
;
;      Multirun Variables
;*****
; ProbeIntervalDelay=wait after end of one run before starting next
; ProbeWaitTime=wait to start Probe (default=15mins)
; ProbeRunTime=#minutes probe will collect stats
;;Probe_Interval=2800,2900,3000
;;ProbeIntervalDelay=30
;;ProbeWaitTime=30
;;ProbeRunTime=180
; ProbeRunTime=2 because we want 240 minutes of runtime after ramp-up
; without overhead of PROBE
; Next line cause command 'show stat' to execute on SUT console
; before start of each multi-run and when ramped up for that run
; Mail statistics required for audit at ramp-up and before ramp-down
;;ProbeTestIncrementCMD=show stat mail
;;ProbeTestIncrementCMD=show stat database
;;NBTestReset=1
;*****
;
;      Server Planner Variables
;*****
;;CPDatabase=c:\notesb3\data\Server.Planner.nsf
;;SUTMachineID=Teton600
;-----End
;-----End
FaultRecovery_Build=Build V60_09252002
CONSOLE_LOG_ENABLED=1
DSTLAW=4,1,1,10,-1,1
UPDATE_TIMER=08/08/2003 07:08:15 AM
SUDIALOG_ON=0
Timezone=5
DST=1
MailType=0
$$HasLANPort=1
WWWDSPP_SYNC_BROWSERCACHE=0
WWWDSPP_PREFETCH_OBJECT=0
EnableJavaApplets=1
EnablePlugins=1
Preferences=-2147480463
AltNameLanguage=en
ContentLanguage=en-US
WeekStart=1
ViewWeekStart=2
NavWeekStart=1
XLATE_CSID=52
SPELL_LANG=1033
SPELL_PREFERENCES=0
Region=en-US
DatePickerDirection=0
Passthru_LogLevel=0
Console_LogLevel=2
VIEWIMP1=Lotus 1-2-3,0,_IWKSV,,123,.WK1,.WK3,.WK4,.WKS,.WR1,.WRK,,4,
VIEWIMP2=Structured Text,0,_ISTR,,.CGN,.LTR,.STR,,1,
VIEWIMP3=Tabular Text,0,_ITAB,,.PRN,.RPT,.TAB,.TXT,,1,
VIEWIMP4=vCard,0,_IVCRD,,.VCF,,1,
VIEWEXP1=Lotus 1-2-3,0,_XWKS,,123,.WK1,.WK3,.WK4,.WKS,.WR1,.WRK,,4,
VIEWEXP2=Structured Text,0,_XSTR,,.CGN,.LTR,.STR,,1,
VIEWEXP3=Tabular Text,1,_XTAB,,.CGN,.LTR,.RPT,.TAB,,1,
VIEWEXP4=vCard 2.1,0,_XVCRD,,.VCF,,1,
VIEWEXP5=vCard 3.0,0,_XVCRD3,,.VCF,,1,
EDITIMP1=ASCII Text,0,_ITEXT,,.C,.H,.PRN,.RIP,.TXT,,1,
EDITIMP2=Binary with Text,0,_ISTRNGS,,.*,,1,
EDITIMP3=BMP Image,0,_IBMP,,.BMP,,18,
EDITIMP4=CGM Image,0,_IFL,,.CGM,.GMF,,8,
EDITIMP5=GIF Image,0,_IGIF,,.GIF,,18,
EDITIMP6=HTML File,0,_HTML,,.HTM,.HTML,,1,
EDITIMP7=JPEG Image,0,_JPEG,,.JPG,,18,

```


ReplDefPartDocsLimit=0
ReplDefPartDocsLimitAmt=40
ReplDefPartAtchLimit=0
ReplDefPartAtchLimitAmt=40
ReplDefFullText=0
ReplDefEncrypt=1
ReplDefEncryptType=2
ReplDefReplImmed=1
SheadlineDisableHeadlines=0
PromptForLocation=0
EmptyTrash=0
UNICODE_Display=1
AltCalendar=0
MIMEPromptMultilingual=1
MIMEMultilingualMode=1
QuotePrefix=>
QuoteLineLength=70
EnableActiveXInBrowser=1
EnableJavaScript=1
EnableJavaScriptErrorDialogs=1
EnableLiveConnect=1
BackgroundPrinting=1
ShowAccelerators=1
DisableImageDithering=1
DESKWINDOWSIZE=36 38 984 702
WINDOWSIZEWIN=20 15 984 715
MAXIMIZED=0
RequestCertTableUpdate=user.id 08/08/2003
DYNINFOCR_OFB92FC04E:81CE6E11-ONB679C5D8:0DE027FC=OF2A41E792:01F296D6-ON8528DF1F:36021593

Appendix E: Network Configuration

The standard TCP/IP stack provided by Microsoft Windows 2000 Server was used.

Appendix F: Guidelines for Information Usage

This report is intended for IBM Business Partners, customers, and IBM marketing and technical support personnel. The report may be distributed in accordance with the requirements stated in the Edition notice.

Appendix G: Pricing

The table provides the IBM List Price for the U.S. only. Actual prices may vary, and prices may also vary by country. Prices are subject to change without notice. For additional information and current prices, contact your local IBM representative.

Item Description	Order Number	Qty	IBM List Price	Extended Price
IBM xSeries 225 One 3.06GHz Xeon Processor DP Embedded 10/100/1000 Ethernet Controller	8647-6AX	1	\$1,849	\$1,849
3.06GHz Xeon Processor DP Upgrade	24P8122	1	999	999
1GB PC2100 DDR SDRAM RDIMM Memory	33L5039	4	659	2,636
ServeRAID-4H Ultra160 SCSI Adapter	37L6889	2	1,099	2,198
ServeRAID-5i SCSI Controller	25P3492	1	499	499
Intel Pro/1000 XT Gigabit Server Adapter	22P6801	1	185	185
36.4GB 15K Ultra320 SCSI Hard Disk Drives	32P0734	73	495	36,135
EXP300 Rack Storage Expansion Enclosure	3531-1RU	5	3,179	15,895
E54 15" (13.8" Viewable) Color Monitor	633147N	1	119	119
Software				
Microsoft Windows 2000 Server		1	738	738
Lotus Domino 6 Enterprise Server (List Price per Processor)		2	2,308	4,616
Total System Price				\$65,869

Appendix H: Vendor-Defined Information

None.

Appendix I: Domino “Show Statistics” Output

Show Stat Output from First Partition

```
> sh stat
Database.DAFailoverCount = 0
Database.DARefreshServerInfoCount = 0
Database.DAReloadCount = 0
Database.Database.BufferPool.Maximum.Megabytes = 320
Database.Database.BufferPool.MM.Reads = 36
Database.Database.BufferPool.MM.Writes = 13
Database.Database.BufferPool.Peak.Megabytes = 318
Database.Database.BufferPool.PerCentReadsInBuffer = 89.3
Database.DbCache.CurrentEntries = 1
Database.DbCache.HighWaterMark = 7251
Database.DbCache.Hits = 8133
Database.DbCache.InitialDbOpens = 17550
Database.DbCache.Lookups = 428137
Database.DbCache.MaxEntries = 10000
Database.DbCache.OvercrowdingRejections = 0
Database.ExtMgrPool.Peak = 65,406
Database.ExtMgrPool.Used = 148
Database.FreeHandleStack.FreeHandleStackHits = 1986799
Database.FreeHandleStack.HandleAllocations = 2071843
Database.FreeHandleStack.MissRate = 4
Database.LDAP.NAMELookupBindFailures = 0
Database.LDAP.NAMELookupBinds = 0
Database.LDAP.NAMELookupBytesReceived = 0
Database.LDAP.NAMELookupEntries = 0
Database.LDAP.NAMELookupFailures = 0
Database.LDAP.NAMELookupTotal = 0
Database.LDAP.NAMELookupTotalLookupTime = 0
Database.NAMELookupCacheCacheSize = 13,647,892
Database.NAMELookupCacheHashSize = 1,162,944
Database.NAMELookupCacheHits = 263,336
Database.NAMELookupCacheLookups = 975,197
Database.NAMELookupCacheMaxSize = 16,777,216
Database.NAMELookupCacheMisses = 704,597
Database.NAMELookupCacheNoHitHits = 7,264
Database.NAMELookupCachePool.Peak = 16,777,216
Database.NAMELookupCachePool.Used = 16,772,384
Database.NAMELookupCacheResets = 0
Database.NAMELookupMisses = 77
Database.NAMELookupTotal = 746643
Database.NAMELookupTotalLookupTime = 7,400.044
Database.NIFPool.Peak = 35,651,584
Database.NIFPool.Used = 221,984
Database.NSFPool.Peak = 163,577,856
Database.NSFPool.Used = 482,368
Database.NSF.ClusterHashTable.EntriesWithSameIndex = 0
Database.NSF.ClusterHashTable.FreedEntriesOnCleanup = 0
Database.NSF.ClusterHashTable.HashedEntries = 0
Database.NSF.ClusterHashTable.HashIsFull = 0
Database.NSF.ClusterHashTable.MissedHashHits = 0
Database.NSF.ClusterHashTable.SuccessfullHashHits = 0
Database.NSF.Replicate.NotesMergedBack = 0
Database.NSF.Replicate.NotesReceived = 0
Database.NSF.Replicate.NotesReopened = 0
Database.NSF.Replicate.NotesSent = 0
Database.NSF.SignatureCache.Hits = 0
Database.NSF.SignatureCache.Tries = 0
Database.RM.Sys.Logged = Disabled
Disk.C.Free = 35,411,210,240
Disk.C.Size = 36,385,185,792
Disk.C.Type = Fixed
Disk.D.Free = 202,434,703,360
```

Disk.D.Size = 254,802,690,048
Disk.D.Type = Fixed
Disk.E.Free = 202,440,212,480
Disk.E.Size = 254,802,690,048
Disk.E.Type = Fixed
Disk.Fixed = 7
Disk.F.Free = 168,988,848,128
Disk.F.Size = 254,802,690,048
Disk.F.Type = Fixed
Disk.G.Free = 169,004,605,440
Disk.G.Size = 254,802,690,048
Disk.G.Type = Fixed
Disk.H.Free = 168,989,372,416
Disk.H.Size = 254,802,690,048
Disk.H.Type = Fixed
Disk.J.Free = 25,360,146,432
Disk.J.Size = 36,396,830,720
Disk.J.Type = Fixed
Mail.AverageDeliverTime = 57
Mail.AverageServerHops = 1
Mail.AverageSizeDelivered = 18
Mail.CurrentByteDeliveryRate = 0
Mail.CurrentByteTransferRate = 0
Mail.CurrentMessageDeliveryRate = 0
Mail.CurrentMessageTransferRate = 0
Mail.DBCacheEntries = 0
Mail.DBCacheHits = 59102
Mail.DBCacheReads = 396519
MAIL.Dead = 0
Mail.Delivered = 392714
Mail.DeliveredSize.100KB_to_1MB = 14231
Mail.DeliveredSize.10KB_to_100KB = 120022
Mail.DeliveredSize.1KB_to_10KB = 150251
Mail.DeliveredSize.1MB_to_10MB = 119
Mail.DeliveredSize.Under_1KB = 108091
Mail.Deliveries = 396371
Mail.DeliveryThreads.Active = 0
Mail.DeliveryThreads.Max = 13
Mail.DeliveryThreads.Total = 13
Mail.Domain = IBM
MAIL.Hold = 0
Mail.Mailbox.AccessConflicts = 0
Mail.Mailbox.Accesses = 0
Mail.Mailbox.AccessWarnings = 0
Mail.Mailbox.CurrentAccesses = 0
Mail.Mailbox.MaxConcurrentAccesses = 0
Mail.Mailbox.Opens = 213106
Mail.MaximumDeliverTime = 1801
Mail.MaximumServerHops = 2
Mail.MaximumSizeDelivered = 9767
Mail.MinimumDeliverTime = 1
Mail.MinimumServerHops = 1
Mail.MinimumSizeDelivered = 1
Mail.PeakByteDeliveryRate = 208568
Mail.PeakByteTransferRate = 44921
Mail.PeakMessageDeliveryRate = 13
Mail.PeakMessageDeliveryTime = 08/12/2003 22:28:32 EDT
Mail.PeakMessagesDelivered = 804
Mail.PeakMessagesTransferred = 120
Mail.PeakMessageTransferRate = 2
Mail.PeakMessageTransferTime = 08/12/2003 13:21:51 EDT
Mail.PeakTotalBytesDelivered = 12514128
Mail.PeakTotalBytesTransferred = 2695302
Mail.TotalKBDelivered = 7,796,557
Mail.TotalKBTransferred = 2,529,384
Mail.TotalKBTransferred.NRPC = 2,529,384
Mail.TotalPending = 0
Mail.TotalRouted = 563884

Mail.TotalRouted.NRPC = 563884
Mail.Transferred = 100041
Mail.TransferredSize.100KB_to_1MB = 4830
Mail.TransferredSize.10KB_to_100KB = 40073
Mail.TransferredSize.1KB_to_10KB = 50074
Mail.TransferredSize.1MB_to_10MB = 36
Mail.TransferredSize.Under_1KB = 5028
Mail.Transferred.NRPC = 100041
Mail.TransferThreads.Active = 0
Mail.TransferThreads.Concurrent.Highest = 6
Mail.TransferThreads.Concurrent.Max = 6
Mail.TransferThreads.Max = 13
Mail.TransferThreads.Total = 6
MAIL.Waiting = 0
Mail.WaitingForDeliveryRetry = 0
MAIL.WaitingForDIR = 0
MAIL.WaitingForDNS = 0
MAIL.WaitingRecipients = 0
Mem.Allocated = 659977196
Mem.Allocated.Process = -12485048
Mem.Allocated.Shared = 672462244
Mem.Availability = Plentiful
Mem.Free = 5,224,882,175
Mem.PhysicalRAM = 2147483647
Monitor.Last.ROUTER.Failure = 13,208
Monitor.Last.ROUTER.FailureText = Router: Unable to obtain Internet host and domain names
Monitor.ROUTER.Failure = 1
NET.GroupCache.Hits = 55,431
NET.GroupCache.Misses = 16
NET.GroupCache.NumEntries = 8
NET.GroupCache.Size = 65,406
NET.GroupCache.Used = 2,374
NET.Log.sut1/ibm.PeakUnwrittenEntries = 49
NET.Log.sut1/ibm.UnwrittenEntries = 2
NET.TCPIP.BytesReceived = 42,822,274,678
NET.TCPIP.BytesSent = 8,428,487,450
NET.TCPIP.Sessions.Established.Incoming = 55250
NET.TCPIP.Sessions.Established.Outgoing = 57197
NET.TCPIP.Sessions.Limit = 65535
NET.TCPIP.Sessions.LimitMax = 65535
NET.TCPIP.Sessions.LimitMin = 10
NET.TCPIP.Sessions.Peak = 7263
NET.TCPIP.Sessions.Recycled = 0
NET.TCPIP.Sessions.Recycling = 0
Platform.ActiveNumOfDominoPartitions = 2
Platform.LogicalDisk.1.AssignedName = D
Platform.LogicalDisk.1.AvgQueueLen = 0
Platform.LogicalDisk.1.AvgQueueLen.Avg = 0.6
Platform.LogicalDisk.1.AvgQueueLen.Peak = 8.6
Platform.LogicalDisk.1.PctUtil = 0
Platform.LogicalDisk.1.PctUtil.Avg = 62.8
Platform.LogicalDisk.1.PctUtil.Peak = 100
Platform.LogicalDisk.2.AssignedName = F
Platform.LogicalDisk.2.AvgQueueLen = 0
Platform.LogicalDisk.2.AvgQueueLen.Avg = 0.6
Platform.LogicalDisk.2.AvgQueueLen.Peak = 8.2
Platform.LogicalDisk.2.PctUtil = 0
Platform.LogicalDisk.2.PctUtil.Avg = 61.7
Platform.LogicalDisk.2.PctUtil.Peak = 100
Platform.LogicalDisk.3.AssignedName = H
Platform.LogicalDisk.3.AvgQueueLen = 0
Platform.LogicalDisk.3.AvgQueueLen.Avg = 0.6
Platform.LogicalDisk.3.AvgQueueLen.Peak = 8.4
Platform.LogicalDisk.3.PctUtil = 0
Platform.LogicalDisk.3.PctUtil.Avg = 62.2
Platform.LogicalDisk.3.PctUtil.Peak = 100
Platform.LogicalDisk.4.AssignedName = E
Platform.LogicalDisk.4.AvgQueueLen = 0

Platform.LogicalDisk.4.AvgQueueLen.Avg = 0.5
Platform.LogicalDisk.4.AvgQueueLen.Peak = 5.2
Platform.LogicalDisk.4.PctUtil = 0
Platform.LogicalDisk.4.PctUtil.Avg = 45.2
Platform.LogicalDisk.4.PctUtil.Peak = 100
Platform.LogicalDisk.5.AssignedName = G
Platform.LogicalDisk.5.AvgQueueLen = 0
Platform.LogicalDisk.5.AvgQueueLen.Avg = 0.4
Platform.LogicalDisk.5.AvgQueueLen.Peak = 5.1
Platform.LogicalDisk.5.PctUtil = 0
Platform.LogicalDisk.5.PctUtil.Avg = 44.6
Platform.LogicalDisk.5.PctUtil.Peak = 100
Platform.LogicalDisk.6.AssignedName = C
Platform.LogicalDisk.6.AvgQueueLen = 0
Platform.LogicalDisk.6.AvgQueueLen.Avg = 0
Platform.LogicalDisk.6.AvgQueueLen.Peak = 0
Platform.LogicalDisk.6.PctUtil = 0.1
Platform.LogicalDisk.6.PctUtil.Avg = 0.1
Platform.LogicalDisk.6.PctUtil.Peak = 1.1
Platform.LogicalDisk.7.AssignedName = J
Platform.LogicalDisk.7.AvgQueueLen = 0
Platform.LogicalDisk.7.AvgQueueLen.Avg = 0.1
Platform.LogicalDisk.7.AvgQueueLen.Peak = 1.2
Platform.LogicalDisk.7.PctUtil = 0.5
Platform.LogicalDisk.7.PctUtil.Avg = 5.6
Platform.LogicalDisk.7.PctUtil.Peak = 100
Platform.LogicalDisk.TotalNumofDisks = 7
Platform.Memory.PagesPerSec = 7.7
Platform.Memory.PagesPerSec.Avg = 582.4
Platform.Memory.PagesPerSec.Peak = 5,596
Platform.Memory.RAM.AvailMBytes = 937.9
Platform.Memory.RAM.AvailMBytes.Avg = 881.4
Platform.Memory.RAM.AvailMBytes.Min = 671.4
Platform.Memory.RAM.AvailMBytes.Peak = 3,214.3
Platform.Memory.RAM.PctUtil = 74
Platform.Memory.RAM.TotalMBytes = 3712
Platform.Network.1.AdapterName = Intel[R] PRO_1000 XT Server Adapter
Platform.Network.1.BytesRecvdPerSec = 42.8
Platform.Network.1.BytesSentPerSec = 4.9
Platform.Network.1.CurrBandwidthMbitsPerSec = 1,000
Platform.Network.1.PctUtilBandwidth = 0
Platform.Network.1.TotalBytesPerSec = 47.7
Platform.Network.2.AdapterName = Broadcom NetXtreme Gigabit Ethernet Driver
Platform.Network.2.BytesRecvdPerSec = 19.5
Platform.Network.2.BytesSentPerSec = 4.6
Platform.Network.2.CurrBandwidthMbitsPerSec = 1,000
Platform.Network.2.PctUtilBandwidth = 0
Platform.Network.2.TotalBytesPerSec = 24.1
Platform.Network.TotalNumofAdapters = 2
Platform.Network.Total.BytesRecvdPerSec = 62.3
Platform.Network.Total.BytesSentPerSec = 9.5
Platform.Network.Total.CurrBandwidthMbitsPerSec = 2,000
Platform.Network.Total.NetworkBytesPerSec = 71.8
Platform.Network.Total.PctUtilBandwidth = 0
Platform.PagingFile.Total.PctUtil = 6.3
Platform.PagingFile.Total.PctUtil.Avg = 4.3
Platform.PagingFile.Total.PctUtil.Peak = 6.3
Platform.Process.ActiveDomino.TotalCpuUtil = 0.1
Platform.Process.ActiveNumOfDominoProc = 3
Platform.Process.event.1.PctCpuUtil = 0
Platform.Process.event.1.ProcessID = 1168
Platform.Process.router.1.PctCpuUtil = 0
Platform.Process.router.1.ProcessID = 376
Platform.Process.server.1.PctCpuUtil = 0.1
Platform.Process.server.1.ProcessID = 1216
Platform.System.ContextSwitchesPerSec = 746.8
Platform.System.ContextSwitchesPerSec.Avg = 2,677.1
Platform.System.ContextSwitchesPerSec.Min = 419.1

Platform.System.ContextSwitchesPerSec.Peak = 22,784.7
Platform.System.PctCombinedCpuUtil = 0.2
Platform.System.PctCombinedCpuUtil.Avg = 8.6
Platform.System.PctCombinedCpuUtil.Peak = 90.1
Platform.System.PctTotalPrivilegedCpuUtil = 0.1
Platform.System.PctTotalPrivilegedCpuUtil.Avg = 3.3
Platform.System.PctTotalPrivilegedCpuUtil.Peak = 37.5
Platform.System.PctTotalUserCpuUtil = 0.1
Platform.System.PctTotalUserCpuUtil.Avg = 5.3
Platform.System.PctTotalUserCpuUtil.Peak = 55.1
Platform.Time.LastSample = 08/16/2003 07:10:34 EDT
Platform.Time.SampleRateInMins = 10
Server.Administrators = CN=adminimator/O=ibm
Server.Administrators.Access = CN=adminimator/O=ibm
Server.Administrators.FullAccess = CN=adminimator/O=ibm
Server.AvailabilityIndex = 100
Server.AvailabilityThreshold = 0
Server.BootID = 5581602
Server.BusyTimeQuery.ReceivedCount = 0
Server.CPU.Count = 4
Server.CPU.Type = Intel Pentium
Server.ElapsedTime = 3 days 19:34:48
Server.ExpansionFactor = 1
Server.MailBoxes = 4
Server.Monitor.Start = 08/12/2003 11:34:04 EDT
Server.Name = CN=sut1/O=ibm
Server.OpenRequest.MaxUsers = 0
Server.OpenRequest.Restricted = 0
Server.Path.Configfile = j:\domino\sut1\notes.ini
Server.Path.Data = j:\domino\sut1
Server.Path.Executable = J:\domino\
Server.Ports = TCPIP
Server.PoweredBy = Notes
Server.Sessions.Dropped = 0
Server.SharedMail = 0
Server.Task = Router: Searching for mail to transfer: [08/13/2003 01:17:49 EDT]
Server.Task = Router: Searching for mail to transfer: [08/13/2003 01:17:35 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:37 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:37 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:37 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:37 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to transfer: [08/13/2003 01:17:31 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:37 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to transfer: [08/13/2003 01:17:33 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to transfer: [08/13/2003 01:17:35 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:38 EDT]
Server.Task = Router: Searching for mail to deliver: [08/13/2003 01:17:37 EDT]
Server.Task = Router: Searching for mail to transfer: [08/13/2003 01:15:31 EDT]
Server.Task = Router: Idle: [08/16/2003 07:08:52 EDT]
Server.Task = Event Monitor: Idle: [08/16/2003 07:08:52 EDT]
Server.Tasks = 140
Server.Task.DB = Database Server: Idle: [08/16/2003 07:08:52 EDT]
Server.Time.Start = 08/12/2003 11:34:04 EDT
Server.Title =
Server.Trans.PerMinute = 0
Server.Trans.PerMinute.Peak = 12325
Server.Trans.PerMinute.Peak.Time = 08/13/2003 00:51:44 EDT
Server.Trans.Total = 8086113
Server.Users = 0
Server.Users.1MinPeak = 2887
Server.Users.1MinPeakTime = 08/13/2003 00:33:45 EDT
Server.Users.5MinPeak = 6165

Server.Users.5MinPeakTime = 08/13/2003 00:54:00 EDT
Server.Users.Active = 0
Server.Users.Active15Min = 0
Server.Users.Active1Min = 0
Server.Users.Active30Min = 0
Server.Users.Active3Min = 0
Server.Users.Active5Min = 0
Server.Users.Peak = 7257
Server.Users.Peak.Time = 08/12/2003 17:28:14 EDT
Server.Version.Notes = Release 6.0
Server.Version.Notes.BuildNumber = 190
Server.Version.OS = Windows NT 5.0
Server.WorkThreads = 100
Stats.Time.Current = 08/16/2003 07:10:38 EDT
Stats.Time.Start = 08/12/2003 11:30:15 EDT
348 statistics found

Show Stat Output from Second Partition

```
> sh stat
Database.DAFailoverCount = 0
Database.DARefreshServerInfoCount = 0
Database.DAReloadCount = 0
Database.Database.BufferPool.Maximum.Megabytes = 320
Database.Database.BufferPool.MM.Reads = 27
Database.Database.BufferPool.MM.Writes = 10
Database.Database.BufferPool.Peak.Megabytes = 318
Database.Database.BufferPool.PerCentReadsInBuffer = 89.81
Database.DbCache.CurrentEntries = 1
Database.DbCache.HighWaterMark = 7251
Database.DbCache.Hits = 32474
Database.DbCache.InitialDbOpens = 61446
Database.DbCache.Lookups = 386373
Database.DbCache.MaxEntries = 10000
Database.DbCache.OvercrowdingRejections = 0
Database.ExtMgrPool.Peak = 65,406
Database.ExtMgrPool.Used = 148
Database.FreeHandleStack.FreeHandleStackHits = 1593348
Database.FreeHandleStack.HandleAllocations = 1657445
Database.FreeHandleStack.MissRate = 3
Database.LDAP.NAMELookupBindFailures = 0
Database.LDAP.NAMELookupBinds = 0
Database.LDAP.NAMELookupBytesReceived = 0
Database.LDAP.NAMELookupEntries = 0
Database.LDAP.NAMELookupFailures = 0
Database.LDAP.NAMELookupTotal = 0
Database.LDAP.NAMELookupTotalLookupTime = 0
Database.NAMELookupCacheCacheSize = 13,655,648
Database.NAMELookupCacheHashSize = 1,162,944
Database.NAMELookupCacheHits = 222,791
Database.NAMELookupCacheLookups = 803,341
Database.NAMELookupCacheMaxSize = 16,777,216
Database.NAMELookupCacheMisses = 573,287
Database.NAMELookupCacheNoHitHits = 7,263
Database.NAMELookupCachePool.Peak = 16,777,216
Database.NAMELookupCachePool.Used = 16,772,384
Database.NAMELookupCacheResets = 0
Database.NAMELookupMisses = 73
Database.NAMELookupTotal = 632506
Database.NAMELookupTotalLookupTime = 7,107.024
Database.NIFPool.Peak = 34,603,008
Database.NIFPool.Used = 217,088
Database.NSFPool.Peak = 173,015,040
Database.NSFPool.Used = 477,248
Database.NSF.ClusterHashTable.EntriesWithSameIndex = 0
Database.NSF.ClusterHashTable.FreedEntriesOnCleanup = 0
Database.NSF.ClusterHashTable.HashedEntries = 0
Database.NSF.ClusterHashTable.HashIsFull = 0
```

Database.NSF.ClusterHashTable.MissedHashHits = 0
Database.NSF.ClusterHashTable.SuccessfullHashHits = 0
Database.NSF.Replicate.NotesMergedBack = 0
Database.NSF.Replicate.NotesReceived = 0
Database.NSF.Replicate.NotesReopened = 0
Database.NSF.Replicate.NotesSent = 0
Database.NSF.SignatureCache.Hits = 0
Database.NSF.SignatureCache.Tries = 0
Database.RM.Sys.Logged = Disabled
Disk.C.Free = 35,411,210,240
Disk.C.Size = 36,385,185,792
Disk.C.Type = Fixed
Disk.D.Free = 202,434,703,360
Disk.D.Size = 254,802,690,048
Disk.D.Type = Fixed
Disk.E.Free = 202,440,212,480
Disk.E.Size = 254,802,690,048
Disk.E.Type = Fixed
Disk.Fixed = 7
Disk.F.Free = 168,988,848,128
Disk.F.Size = 254,802,690,048
Disk.F.Type = Fixed
Disk.G.Free = 169,004,605,440
Disk.G.Size = 254,802,690,048
Disk.G.Type = Fixed
Disk.H.Free = 168,989,372,416
Disk.H.Size = 254,802,690,048
Disk.H.Type = Fixed
Disk.J.Free = 25,360,146,432
Disk.J.Size = 36,396,830,720
Disk.J.Type = Fixed
Mail.AverageDeliverTime = 21
Mail.AverageServerHops = 1
Mail.AverageSizeDelivered = 25
Mail.CurrentByteDeliveryRate = 0
Mail.CurrentByteTransferRate = 0
Mail.CurrentMessageDeliveryRate = 0
Mail.CurrentMessageTransferRate = 0
Mail.DBCacheEntries = 0
Mail.DBCacheHits = 50613
Mail.DBCacheReads = 310727
MAIL.Dead = 0
Mail.Delivered = 299379
Mail.DeliveredSize.100KB_to_1MB = 14531
Mail.DeliveredSize.10KB_to_100KB = 120150
Mail.DeliveredSize.1KB_to_10KB = 149680
Mail.DeliveredSize.1MB_to_10MB = 133
Mail.DeliveredSize.Under_1KB = 14885
Mail.Deliveries = 310631
Mail.DeliveryThreads.Active = 0
Mail.DeliveryThreads.Max = 13
Mail.DeliveryThreads.Total = 13
Mail.Domain = IBM
MAIL.Hold = 0
Mail.Mailbox.AccessConflicts = 0
Mail.Mailbox.Accesses = 0
Mail.Mailbox.AccessWarnings = 0
Mail.Mailbox.CurrentAccesses = 0
Mail.Mailbox.MaxConcurrentAccesses = 0
Mail.Mailbox.Opens = 184493
Mail.MaximumDeliverTime = 1006
Mail.MaximumServerHops = 2
Mail.MaximumSizeDelivered = 9767
Mail.MinimumDeliverTime = 1
Mail.MinimumServerHops = 1
Mail.MinimumSizeDelivered = 1
Mail.PeakByteDeliveryRate = 248072
Mail.PeakByteTransferRate = 294624

Mail.PeakMessageDeliveryRate = 10
Mail.PeakMessageDeliveryTime = 08/13/2003 00:12:10 EDT
Mail.PeakMessagesDelivered = 783
Mail.PeakMessagesTransferred = 490
Mail.PeakMessageTransferRate = 8
Mail.PeakMessageTransferTime = 08/13/2003 00:19:03 EDT
Mail.PeakTotalBytesDelivered = 18853506
Mail.PeakTotalBytesTransferred = 17677494
Mail.TotalKBDelivered = 7,878,121
Mail.TotalKBTransferred = 2,100,945
Mail.TotalKBTransferred.NRPC = 2,100,945
Mail.TotalPending = 0
Mail.TotalRouted = 469429
Mail.TotalRouted.NRPC = 469429
Mail.Transferred = 116777
Mail.TransferredSize.100KB_to_1MB = 3572
Mail.TransferredSize.10KB_to_100KB = 29944
Mail.TransferredSize.1KB_to_10KB = 37468
Mail.TransferredSize.1MB_to_10MB = 42
Mail.TransferredSize.Under_1KB = 45751
Mail.Transferred.NRPC = 116777
Mail.TransferThreads.Active = 0
Mail.TransferThreads.Concurrent.Highest = 6
Mail.TransferThreads.Concurrent.Max = 6
Mail.TransferThreads.Max = 13
Mail.TransferThreads.Total = 6
MAIL.Waiting = 0
MAIL.WaitingForDIR = 0
MAIL.WaitingForDNS = 0
MAIL.WaitingRecipients = 0
Mem.Allocated = 659715668
Mem.Allocated.Process = -12604736
Mem.Allocated.Shared = 672320404
Mem.Availability = Plentiful
Mem.Free = 5,224,861,695
Mem.PhysicalRAM = 2147483647
Monitor.Last.ROUTER.Failure = 13,208
Monitor.Last.ROUTER.FailureText = Router: Unable to obtain Internet host and domain names
Monitor.ROUTER.Failure = 1
NET.GroupCache.Hits = 64,626
NET.GroupCache.Misses = 14
NET.GroupCache.NumEntries = 7
NET.GroupCache.Size = 65,406
NET.GroupCache.Used = 2,316
NET.Log.sut2/ibm.PeakUnwrittenEntries = 24
NET.Log.sut2/ibm.UnwrittenEntries = 2
NET.TCPIP.BytesReceived = 32,829,348,592
NET.TCPIP.BytesSent = 6,453,634,068
NET.TCPIP.Sessions.Established.Incoming = 64448
NET.TCPIP.Sessions.Established.Outgoing = 47999
NET.TCPIP.Sessions.Limit = 65535
NET.TCPIP.Sessions.LimitMax = 65535
NET.TCPIP.Sessions.LimitMin = 10
NET.TCPIP.Sessions.Peak = 7262
NET.TCPIP.Sessions.Recycled = 0
NET.TCPIP.Sessions.Recycling = 0
Platform.ActiveNumOfDominoPartitions = 2
Platform.LogicalDisk.1.AssignedName = D
Platform.LogicalDisk.1.AvgQueueLen = 0
Platform.LogicalDisk.1.AvgQueueLen.Avg = 0.7
Platform.LogicalDisk.1.AvgQueueLen.Peak = 8.4
Platform.LogicalDisk.1.PctUtil = 0
Platform.LogicalDisk.1.PctUtil.Avg = 67.9
Platform.LogicalDisk.1.PctUtil.Peak = 100
Platform.LogicalDisk.2.AssignedName = F
Platform.LogicalDisk.2.AvgQueueLen = 0
Platform.LogicalDisk.2.AvgQueueLen.Avg = 0.7
Platform.LogicalDisk.2.AvgQueueLen.Peak = 8.2

Platform.LogicalDisk.2.PctUtil = 0
Platform.LogicalDisk.2.PctUtil.Avg = 66.7
Platform.LogicalDisk.2.PctUtil.Peak = 100
Platform.LogicalDisk.3.AssignedName = H
Platform.LogicalDisk.3.AvgQueueLen = 0
Platform.LogicalDisk.3.AvgQueueLen.Avg = 0.7
Platform.LogicalDisk.3.AvgQueueLen.Peak = 8.4
Platform.LogicalDisk.3.PctUtil = 0
Platform.LogicalDisk.3.PctUtil.Avg = 67.2
Platform.LogicalDisk.3.PctUtil.Peak = 100
Platform.LogicalDisk.4.AssignedName = E
Platform.LogicalDisk.4.AvgQueueLen = 0
Platform.LogicalDisk.4.AvgQueueLen.Avg = 0.5
Platform.LogicalDisk.4.AvgQueueLen.Peak = 5.2
Platform.LogicalDisk.4.PctUtil = 0
Platform.LogicalDisk.4.PctUtil.Avg = 48.8
Platform.LogicalDisk.4.PctUtil.Peak = 100
Platform.LogicalDisk.5.AssignedName = G
Platform.LogicalDisk.5.AvgQueueLen = 0
Platform.LogicalDisk.5.AvgQueueLen.Avg = 0.5
Platform.LogicalDisk.5.AvgQueueLen.Peak = 5.1
Platform.LogicalDisk.5.PctUtil = 0
Platform.LogicalDisk.5.PctUtil.Avg = 48.2
Platform.LogicalDisk.5.PctUtil.Peak = 100
Platform.LogicalDisk.6.AssignedName = C
Platform.LogicalDisk.6.AvgQueueLen = 0
Platform.LogicalDisk.6.AvgQueueLen.Avg = 0
Platform.LogicalDisk.6.AvgQueueLen.Peak = 0
Platform.LogicalDisk.6.PctUtil = 0
Platform.LogicalDisk.6.PctUtil.Avg = 0.1
Platform.LogicalDisk.6.PctUtil.Peak = 1
Platform.LogicalDisk.7.AssignedName = J
Platform.LogicalDisk.7.AvgQueueLen = 0
Platform.LogicalDisk.7.AvgQueueLen.Avg = 0.1
Platform.LogicalDisk.7.AvgQueueLen.Peak = 1
Platform.LogicalDisk.7.PctUtil = 0.3
Platform.LogicalDisk.7.PctUtil.Avg = 5.9
Platform.LogicalDisk.7.PctUtil.Peak = 100
Platform.LogicalDisk.TotalNumofDisks = 7
Platform.Memory.PagesPerSec = 0
Platform.Memory.PagesPerSec.Avg = 627.6
Platform.Memory.PagesPerSec.Peak = 5,641.4
Platform.Memory.RAM.AvailMBytes = 890.4
Platform.Memory.RAM.AvailMBytes.Avg = 873.7
Platform.Memory.RAM.AvailMBytes.Min = 673.2
Platform.Memory.RAM.AvailMBytes.Peak = 3,122.7
Platform.Memory.RAM.PctUtil = 76
Platform.Memory.RAM.TotalMBytes = 3712
Platform.Network.1.AdapterName = Intel[R] PRO_1000 XT Server Adapter
Platform.Network.1.BytesRecvdPerSec = 44.7
Platform.Network.1.BytesSentPerSec = 5.2
Platform.Network.1.CurrBandwidthMbitsPerSec = 1,000
Platform.Network.1.PctUtilBandwidth = 0
Platform.Network.1.TotalBytesPerSec = 50
Platform.Network.2.AdapterName = Broadcom NetXtreme Gigabit Ethernet Driver
Platform.Network.2.BytesRecvdPerSec = 21.1
Platform.Network.2.BytesSentPerSec = 4.5
Platform.Network.2.CurrBandwidthMbitsPerSec = 1,000
Platform.Network.2.PctUtilBandwidth = 0
Platform.Network.2.TotalBytesPerSec = 25.7
Platform.Network.TotalNumofAdapters = 2
Platform.Network.Total.BytesRecvdPerSec = 65.8
Platform.Network.Total.BytesSentPerSec = 9.7
Platform.Network.Total.CurrBandwidthMbitsPerSec = 2,000
Platform.Network.Total.NetworkBytesPerSec = 75.7
Platform.Network.Total.PctUtilBandwidth = 0
Platform.PagingFile.Total.PctUtil = 6.1
Platform.PagingFile.Total.PctUtil.Avg = 4.3

Server.Tasks = 140
Server.Task.DB = Database Server: Idle: [08/16/2003 07:07:46 EDT]
Server.Time.Start = 08/12/2003 11:37:45 EDT
Server.Title =
Server.Trans.PerMinute = 0
Server.Trans.PerMinute.Peak = 13869
Server.Trans.PerMinute.Peak.Time = 08/13/2003 01:05:13 EDT
Server.Trans.Total = 6150869
Server.Users = 0
Server.Users.1MinPeak = 2656
Server.Users.1MinPeakTime = 08/13/2003 00:32:44 EDT
Server.Users.5MinPeak = 5986
Server.Users.5MinPeakTime = 08/13/2003 00:52:53 EDT
Server.Users.Active = 0
Server.Users.Active15Min = 0
Server.Users.Active1Min = 0
Server.Users.Active30Min = 0
Server.Users.Active3Min = 0
Server.Users.Active5Min = 0
Server.Users.Peak = 7257
Server.Users.Peak.Time = 08/12/2003 18:13:08 EDT
Server.Version.Notes = Release 6.0
Server.Version.Notes.BuildNumber = 190
Server.Version.OS = Windows NT 5.0
Server.WorkThreads = 100
Stats.Time.Current = 08/16/2003 07:10:23 EDT
Stats.Time.Start = 08/12/2003 11:37:20 EDT
347 statistics found

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