

VMmark™ V1.0.0 Results

Vendor and Hardware Platform: Dell PowerEdge 2950
Virtualization Platform: VMware ESX Server V3.0.1

**VMmark V1.0.0 Score =
3.89 @ 3 Tiles**

Tested By: Dell, Round Rock, TX

Test Date: Sep-2007

Performance Section
[Performance](#)

Configuration Section
[Configuration](#)

Notes Section
[Notes for Workload](#)

Performance

	webservers		javaserver		mailserver		fileserver		database		
TILE_0	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1642.72	1.61	18145.17	1.09	1071.40	0.98	18.95	1.48	2201.40	1.48	1.30
p1	1656.20	1.63	18104.83	1.09	1019.02	0.93	19.16	1.49	2220.53	1.49	1.30
p2	1660.38	1.63	17668.45	1.06	970.17	0.88	19.13	1.49	2211.57	1.48	1.28
TILE_1	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1630.47	1.60	18101.00	1.09	1038.60	0.95	18.98	1.48	2228.47	1.49	1.30
p1	1644.67	1.61	18135.25	1.09	997.85	0.91	19.13	1.49	2236.93	1.50	1.29
p2	1651.50	1.62	17652.33	1.06	998.73	0.91	19.11	1.49	2235.40	1.50	1.28
TILE_2	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1634.70	1.60	18114.22	1.09	1082.12	0.99	19.13	1.49	2259.00	1.51	1.31
p1	1633.50	1.60	18111.42	1.09	1061.30	0.97	19.15	1.49	2261.85	1.52	1.31
p2	1650.72	1.62	18140.53	1.09	1057.25	0.96	19.26	1.50	2258.35	1.51	1.31
p0_score:	3.91										
p1_score:	3.89										
p2_score:	3.87										
Unreviewed_VMmark_Score:	3.89										

Configuration

System Under Test (SUT)

Processor Vendor and Model	Dual-Core Intel Xeon 5160
Processor Speed (GHz)	3.0
# of Sockets/Cores per Socket	2 Sockets / 2 Cores per Socket (4 Cores Total)
Primary Cache	32KB(I) + 32KB(D) on chip, per core
Secondary Cache	4MB(I+D) on chip, per chip
Other Cache	None
Memory	32GB (8x4GB) 667MHz ECC CL5 DDR2 FB-DIMM
Disk Subsystem	SAS
# of Disk Controllers	N/A
Host Bus Adapters Vendor and Model	1 x Dell PowerEdge Expandable RAID Controller (PERC) 5/i 2 x Dell PowerEdge Expandable RAID Controller (PERC) 5/E

# of Host Bus Adapters	3
# of Network Controllers	2
Network Controllers Vendor and Model	Broadcom NetXtreme II BCM5708 1000Base-T
Network Switches Vendor and Model	Dell PowerConnect 5224
Network Speed	1000Base-T
Other Hardware	None
Other Software	None
Hardware Availability Date	Jul-2006
Software Availability Date	Oct-2006

Virtualization Platform

Vendor, Product, and Version	VMware ESX Server V3.0.1
Virtualization Type	Hardware Virtualization
Supplemental Software	None
Virtualization Platform Availability Date	Oct-2006

Storage

Array Vendor and Model/ Firmware Version	Dell PowerVault MD 1000/A03
Fibre Channel Switches Vendor and Model	N/A
Used GB	186
Array Cache GB	Each PERC has 256MB of battery-backed cache.
Number and Size of LUNs	2 x 1990 GB (30 146GB/15K), 1016 GB (15 73GB/15K), 500.50 GB (15 36GB/15K)
RAID Type	RAID 0
Number of Members per RAID Set	15
Disk Vendor and Model/Speed	Seagate Cheetah/15K, Maxtor Atlas/15K, Fujitsu Enterprise/15K

Clients

# of Clients	3
System Model	PowerEdge 1750
Processor Vendor and Model	Intel Xeon
Processor Speed (GHz)	3.20, 2 x 3.06
# of Sockets/# of Cores	2/2
Memory	2 GB
Network Controller Vendor and Model	Broadcom NetXtreme Gigabit Ethernet
Operating System, Version, and Service Pack	Microsoft Windows Server 2003 SP1
Other Hardware	None
Other Software	None

Notes for Workload

SUT Notes

- The PERC 5/i onboard controller contained 1 146GB/10K drive for OS.
- Each PERC 5/E was attached to 2xPowerVault MD1000, and each MD1000 contained a 15-disk RAID-0 stripe/LUN.

Virtualization Platform Notes

- vSwitch0 and vSwitch1 bound to vmnic0 and vmnic1 (physical NICs) respectively.
- Each vSwitch was configured to 120 ports (default 56).
- Service Console was shared with vSwitch0.
- Webserver VMs were attached to vSwitch1; the rest of the VMs were attached to vSwitch0.

Operating System Notes

- Microsoft Windows Server 2003 virtual machines were updated to Service Pack 2.

Software Notes

Client Notes

Other Notes

This is a full disclosure report for a VMmark benchmark result. All published VMmark results must be from fully-compliant tests for which a full disclosure report is publicly available.

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