

## VMmark™ V1.0.0 Results

Vendor and Hardware Platform: Dell PowerEdge 6950  
Virtualization Platform: VMware ESX Server V3.0.1

**VMmark V1.0.0 Score =  
7.11 @ 5 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	1866.35	1.83	18129.47	1.09	1410.47	1.29	20.12	1.57	2272.35	1.52	1.44
p1	1891.33	1.86	18121.70	1.09	1509.67	1.38	20.56	1.60	2259.57	1.51	1.47
p2	1897.30	1.86	18124.90	1.09	1462.75	1.33	20.61	1.61	2262.40	1.52	1.46
TILE_1	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	2020.40	1.98	18158.28	1.09	1432.45	1.31	20.49	1.60	2226.80	1.49	1.46
p1	2055.65	2.02	18166.20	1.09	1339.62	1.22	20.57	1.60	2230.10	1.49	1.45
p2	2061.72	2.02	18126.35	1.09	1212.35	1.11	20.64	1.61	2242.10	1.50	1.43
TILE_2	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1821.17	1.79	18107.28	1.09	1167.72	1.06	20.59	1.61	2207.78	1.48	1.38
p1	1735.35	1.70	18123.72	1.09	1129.85	1.03	18.77	1.46	2196.72	1.47	1.33
p2	1721.10	1.69	18098.15	1.09	1020.85	0.93	19.13	1.49	2196.72	1.47	1.30
TILE_3	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1902.00	1.87	18120.88	1.09	1306.35	1.19	20.67	1.61	2198.50	1.47	1.42
p1	1824.40	1.79	18116.50	1.09	1622.85	1.48	19.19	1.50	2243.93	1.50	1.45
p2	1813.50	1.78	17677.05	1.06	1620.65	1.48	19.32	1.51	2257.32	1.51	1.45
TILE_4	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1996.40	1.96	18149.03	1.09	1194.58	1.09	20.78	1.62	2257.70	1.51	1.42
p1	2021.40	1.98	18117.80	1.09	1291.67	1.18	20.81	1.62	2229.65	1.49	1.44
p2	2015.03	1.98	18110.15	1.09	1229.40	1.12	20.71	1.61	2231.55	1.50	1.42
p0_score:	7.11										
p1_score:	7.14										
p2_score:	7.06										
Unreviewed_VMmark_Score:	7.11										

### Configuration

#### System Under Test (SUT)

Processor Vendor and Model	Dual-Core AMD Opteron(tm) Processor 8222SE
----------------------------	--

Processor Speed (GHz)	3.0
# of Sockets/Cores per Socket	4 Sockets / 2 Cores per Socket (8 Cores Total)
Primary Cache	64KB(I) + 64KB(D) on chip, per core
Secondary Cache	1MB(I+D) on chip, per core
Other Cache	None
Memory	64GB (16x4GB) 667MHz ECC CL5 DDR2 Dual Rank
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	Apr-2007
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	310
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	5
System Model	4 x PowerEdge 1750, PowerEdge 1850
Processor Vendor and Model	Intel Xeon
Processor Speed (GHz)	2 x 3.20, 2 x 3.06 (1750), 2.80 (1850)
# of Sockets/# of Cores	2/2 (1750), 2/4 (1850)

Memory	2 GB
Network Controller Vendor and Model	4 x Broadcom NetXtreme Gigabit Ethernet (1750), Intel PRO/1000 MT Network Connection (1850)
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 36GB/15K 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.

For information about VMmark and the rules regarding its usage visit [www.vmware.com/go/vmmark](http://www.vmware.com/go/vmmark).

VMware and VMmark are trademarks or registered trademarks of VMware, Inc. VMware® VMmark™ is a product of [VMware](#), an [EMC](#) Company. VMmark utilizes SPECjbb@2005 and SPECweb@2005, which are available from the [Standard Performance Evaluation Corporation \(SPEC®\)](#).