

p0	1926.85	1.89	17997.88	1.08	1451.12	1.32	18.51	1.44	2060.12	1.38	1.40
p1	1910.25	1.87	17541.35	1.06	1545.03	1.41	18.55	1.45	2056.35	1.38	1.41
p2	1877.60	1.84	17991.20	1.08	1731.47	1.58	18.18	1.42	2047.28	1.37	1.44
TILE_6	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1941.15	1.91	18011.50	1.08	1332.25	1.21	19.29	1.50	2109.50	1.41	1.40
p1	1930.12	1.89	17992.33	1.08	1525.00	1.39	19.16	1.49	2105.22	1.41	1.43
p2	1870.72	1.84	17539.47	1.06	1752.90	1.60	19.27	1.50	2098.15	1.41	1.46
TILE_7	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1959.22	1.92	17976.30	1.08	1155.20	1.05	19.15	1.49	2043.10	1.37	1.35
p1	1925.47	1.89	17994.67	1.08	1536.10	1.40	19.11	1.49	2039.47	1.37	1.42
p2	1897.38	1.86	17543.65	1.06	1659.42	1.51	19.01	1.48	2034.62	1.36	1.43
p0_score:	11.30										
p1_score:	11.54										
p2_score:	11.60										
Unreviewed_VMmark_Score:	11.54										

Configuration

System Under Test (SUT)	
Processor Vendor and Model	Quad-Core Intel Xeon X7350
Processor Speed (GHz)	2.933 GHz
# of Sockets/Cores per Socket	4 Sockets / 4 Cores per Socket (16 Cores Total)
Primary Cache	2 x 4 MB L2 cache
Secondary Cache	none
Other Cache	none
Memory	64 GB memory
Disk Subsystem	Internal Smart Array P400
# of Disk Controllers	1
Host Bus Adapters Vendor and Model	HP StorageWorks FC2242SR Dual Channel 4 Gb PCI-E HBA
# of Host Bus Adapters	1

# of Network Controllers	6
Network Controllers Vendor and Model	2 embedded HP NC373i Multifunction Gigabit adapters 2 PCIe HP NC380T Dual Port Gigabit adapters
Network Switches Vendor and Model	1 HP ProCurve 2810-24G 1 HP ProCurve 2848
Network Speed	Gigabit
Other Hardware	none
Other Software	none
Hardware Availability Date	Currently available
Software Availability Date	none

Virtualization Platform

Vendor, Product, and Version	VMware ESX Server 3.0.2, 52542
Virtualization Type	Bare metal
Supplemental Software	none
Virtualization Platform Availability Date	VMware ESX Server 3.0.2, 52542. Release Date 7/31/2007

Storage

Array Vendor and Model/ Firmware Version	1. HP EVA 4000, version CR0D63xc3p-6000 2. HP EVA 8000, version CR0B42xc3p-5031 3. HP EVA 5000, version SR0045vcsp-4007
Fibre Channel Switches Vendor and Model	HP StorageWorks 4/16 SAN Switch
Used GB	540 GB
Array Cache GB	1. HP EVA 4000, 4096 MB cache 2. HP EVA 8000, 4096 MB cache 3. HP EVA 5000, 2560 MB cache
Number and Size of LUNs	LUN 1: 120 GB LUN 2: 80 GB LUN 3: 80 GB LUN 4: 60 GB LUN 5: 50 GB LUN 6: 80 GB LUN 7: 80 GB LUN 8: 31 GB LUN 9: 100 GB LUN 10: 22 GB LUN 11: 31 GB LUN 12: 22 GB LUN 13: 80 GB
	LUN 1: RAID 1 LUN 2: RAID 1

RAID Type	LUN 3: RAID 1 LUN 4: RAID 1 LUN 5: RAID 1 LUN 6: RAID 1 LUN 7: RAID 1 LUN 8: RAID 1 LUN 9: RAID 1 LUN 10: RAID 1 LUN 11: RAID 1 LUN 12: RAID 1 LUN 13: RAID 1
Number of Members per RAID Set	LUN 1: 5 members LUN 2: 5 members LUN 3: 5 members LUN 4: 5 members LUN 5: 5 members LUN 6: 5 members LUN 7: 5 members LUN 8: 2 members LUN 9: 2 members LUN 10: 1 member LUN 11: 2 members LUN 12: 1 member LUN 13: 5 members
Disk Vendor and Model/Speed	Mix of: HP Fibre Channel 36.4 GB 10K RPM drives HP Fibre Channel 72.8 GB 15K RPM drives HP Fibre Channel 146.8 GB 15K RPM drives HP Fibre Channel 300 GB 10K RPM drives

Clients

# of Clients	8
System Model	HP ProLiant BL20p G2
Processor Vendor and Model	Intel Xeon
Processor Speed (GHz)	3.2 GHz
# of Sockets/# of Cores	2P/1C
Memory	4 GB
Network Controller Vendor and Model	HP NC7781
Operating System, Version, and Service Pack	Windows Server 2003 Enterprise Edition SP1
Other Hardware	none
Other Software	none

Notes for Workload

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SUT Notes

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Virtualization Platform Notes

DiskSchedNumReqOutstanding parameter change to 64

HBA Queue Depth changes to 64

Operating System Notes

###

Software Notes

###

Client Notes

###

Other Notes

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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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