

VMmark® 3.0 Results

Vendor and Hardware Platform: Fujitsu Server PRIMERGY RX2540 M4
 Virtualization Platform: VMware ESXi 6.5.0b Build 5146846
 VMware vCenter Server : VMware vCenter Server 6.5.0a Build 4944578

**VMmark 3.0 Score =
8.11 @ 8 Tiles**

Number of Hosts: 2	Uniform Hosts [yes/no]: yes	Total sockets/cores/threads in test: 4/112/224
Tested By: Fujitsu		Test Date: 12-15-2017
Performance Section Performance	Configuration Section Configuration	Notes Section Notes for Workload

Performance

	weathervane			weathervaneE			dvdstoreA			dvdstoreB			dvdstoreC			
TILE_0	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3599.80	1.00	0.36 0.00	572.47	1.00	0.59 0.77	1008.08	1.37	679.16	741.12	1.48	786.62	523.58	1.51	894.05	1.25
p1	3597.57	1.00	0.37 0.00	573.99	1.00	0.59 0.66	1006.62	1.37	680.13	707.45	1.41	802.32	520.00	1.50	902.06	1.24
p2	3602.26	1.00	0.35 0.00	573.60	1.00	0.77 0.58	1005.48	1.37	684.39	710.52	1.42	808.84	494.23	1.43	926.32	1.23
TILE_1	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3595.17	1.00	0.40 0.00	573.91	1.00	0.48 0.50	990.05	1.35	721.57	722.15	1.44	840.56	530.27	1.53	935.85	1.24
p1	3599.93	1.00	0.41 0.00	572.34	1.00	0.64 0.54	997.62	1.36	714.65	698.70	1.40	841.60	480.77	1.39	977.66	1.21
p2	3602.79	1.00	0.38 0.00	572.28	1.00	0.78 0.52	975.42	1.33	755.53	710.85	1.42	879.46	501.02	1.44	989.49	1.22
TILE_2	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3600.23	1.00	0.32 0.00	575.39	1.01	0.51 0.46	1018.85	1.39	655.63	721.77	1.44	767.33	528.75	1.52	853.05	1.25
p1	3599.15	1.00	0.32 0.00	573.67	1.00	0.58 0.26	1015.55	1.38	663.34	719.20	1.44	786.15	498.95	1.44	885.67	1.23
p2	3596.37	1.00	0.30 0.00	573.42	1.00	0.76 0.39	1005.20	1.37	680.55	736.83	1.47	794.22	550.00	1.59	867.27	1.26
TILE_3	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3604.15	1.00	0.35 0.00	572.75	1.00	0.57 0.40	994.50	1.35	709.37	697.70	1.39	846.62	482.15	1.39	967.39	1.21
p1	3596.14	1.00	0.36 0.00	571.25	1.00	0.65 0.60	983.17	1.34	746.00	714.48	1.43	871.21	500.55	1.44	992.25	1.22
p2	3599.91	1.00	0.35 0.00	572.39	1.00	0.75 0.43	984.60	1.34	742.00	688.52	1.38	881.66	498.18	1.44	1002.57	1.22
TILE_4	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3603.45	1.00	0.34 0.00	572.19	1.00	0.48 0.47	1017.27	1.39	659.17	719.30	1.44	777.31	502.07	1.45	874.38	1.24
p1	3599.50	1.00	0.35 0.00	572.45	1.00	0.51 0.40	1003.73	1.37	686.40	739.15	1.48	789.71	548.08	1.58	878.29	1.26
p2	3598.69	1.00	0.32 0.00	573.14	1.00	0.58 0.37	1011.52	1.38	661.61	717.42	1.43	782.58	496.73	1.43	886.73	1.23
TILE_5	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM

p0	3598.25	1.00	0.31 0.00	573.80	1.00	0.43 0.33	991.50	1.35	725.67	720.00	1.44	847.60	508.10	1.47	959.51	1.23
p1	3604.11	1.00	0.31 0.00	574.39	1.00	0.46 0.46	1003.80	1.37	692.75	705.85	1.41	822.73	515.30	1.49	915.64	1.24
p2	3598.69	1.00	0.30 0.00	572.54	1.00	0.58 0.54	1011.88	1.38	673.91	711.42	1.42	795.49	495.07	1.43	911.25	1.23
TILE_6	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3606.84	1.00	0.34 0.00	574.71	1.00	0.57 0.56	957.05	1.30	812.52	720.38	1.44	937.21	504.27	1.45	1078.44	1.22
p1	3604.39	1.00	0.33 0.00	572.28	1.00	0.41 0.37	970.67	1.32	783.43	648.70	1.30	952.14	464.93	1.34	1075.08	1.18
p2	3597.38	1.00	0.33 0.00	574.29	1.00	0.71 0.60	962.67	1.31	810.74	692.67	1.38	954.28	483.20	1.39	1089.17	1.20
TILE_7	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3605.33	1.00	0.34 0.00	575.52	1.01	0.57 0.45	992.02	1.35	718.33	720.33	1.44	847.97	507.50	1.46	964.64	1.23
p1	3598.70	1.00	0.33 0.00	573.60	1.00	0.51 0.45	986.83	1.34	732.94	669.38	1.34	868.55	474.75	1.37	997.16	1.20
p2	3599.43	1.00	0.33 0.00	572.39	1.00	0.71 0.39	971.45	1.32	770.64	708.70	1.42	896.75	516.23	1.49	1025.58	1.23
p0_score:	9.89															
p1_score:	9.79															
p2_score:	9.82															

Infrastructure_Operations_Scores:	vMotion	SVMotion	XVMotion	Deploy
Completed_Ops_PerHour	28.50	28.00	21.00	11.00
Avg_Seconds_To_Complete	6.24	77.89	103.91	283.13
Failures	0.00	0.00	0.00	0.00
Ratio	1.10	1.56	1.17	1.38
Number_Of_Threads	1	1	1	1

Summary	Run_Is_Compliant	Turbo_Setting:0
	Number_Of_Compliance_Issues(0)*	Median_Phase(p2)
Unreviewed_VMmark3_Applications_Score	9.82	
Unreviewed_VMmark3_Infrastructure_Score	1.29	
Unreviewed_VMmark3_Score	8.11	

Configuration

Virtualization Software	
Hypervisor Vendor, Product, Version, and Build / Availability Date (MM-DD- YYYY)	VMware ESXi 6.5.0b, Build 5146846 / 03-09-2017

Datacenter Management Software Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware vCenter Server 6.5.0a, Build 4944578 / 02-02-2017
Supplemental Software	None
Servers	
Number of Servers in System Under Test (all subsequent fields in this section are per server)	2
Server Manufacturer and Model	Fujitsu Server PRIMERGY RX2540 M4
Processor Vendor and Model	Intel Xeon Platinum 8180
Processor Speed (GHz)	2.5
Total Sockets/Total Cores/Total Threads	2 Sockets / 56 Cores / 112 Threads
Primary CPU Cache	32 KB I + 32 KB D on chip per core
Secondary CPU Cache	1 MB I+D on chip per core
Other CPU Cache	38.5 MB I+D on chip per chip
BIOS Version	R1.7.0
Memory Size (in GB, Number of DIMMs)	768, 24
Memory Type and Speed	32GB 2Rx4 DDR4 2666MHz RDIMM
Disk Subsystem Type	FC SAN
Number of Disk Controllers	0
Disk Controller Vendors and Models	None
Total Number of Physical Disks for Hypervisor	Details in section Storage Notes
Disk Vendors, Models, Capacities, and Speeds	Details in section Storage Notes
Number of Host Bus Adapters	2
Host Bus Adapter Vendors and Models	Emulex LightPulse LPe31002-M6 2-Port 16Gb
Number of Network Controllers	3
Network Controller Vendors and Models	2xEmulex OneConnect Oce14000 Dual Port 10GbE Adapter Intel I350 Dual Port 1GbE Adapter
Other Hardware	None

Other Software	None
Hardware Availability Date (MM-DD-YYYY)	07-12-2017
BIOS Availability Date (MM-DD-YYYY)	07-25-2017
Software Availability Date (MM-DD-YYYY)	03-09-2017
Network	
Network Switch Vendors and Models	1 x Fujitsu SR-X324T2 1 x Fujitsu ET-7648BFERA-FOS
Network Speed	1Gbps for SUT management, 10Gbps for VMotion, 10Gbps for Clients and VMs
Storage	
Array Vendors, Models, and Firmware Versions	3 x Fujitsu Server PRIMERGY RX2540 M2, Firmware R1.13.0 Fujitsu ETERNUS DX100 S3, Firmware version V10L60-6000
Fibre Channel Switch Vendors and Models	Brocade 6510
Disk Space Used	19.2TB
Array Cache Size	4GB(Fujitsu ETERNUS DX100 S3)
Total Number of Physical Disks Used	2 x SAS-HDD(1 per SUT OS), 3 x SAS-SSD(1 per Storage Server OS), 12 x PCIe-SSD
Total Number of Enclosures/Pods/Shelves Used	4
Number of Physical Disks Used per Enclosure/Pod/Shelf	Enclosure(DX100 S3): 1 x SAS-HDD per host for SUT OS Enclosure(RX2540 M2): 1 x SAS-SSD and 4 x PCIe-SSD (3 total)
Total Number of Storage Groups Used	0
Number of LUNs Used	44
LUN Size and Number of Disks Per LUN	Details in section Storage Notes
RAID Type	RAID 0 for OS drives
Number of Members per RAID Set	1
Disk Vendors, Models, and Speeds	2 x Seagate ST1200MM0088 1.2TB 10krpm HDD 3 x Toshiba PX02SMF040 400GB SAS SSD 3 x Fusion ioMemory PX600 1.3TB PCIe SSD 9 x Fusion ioMemory PX600 2.6TB PCIe SSD
Datacenter Management Server	
System Model	Fujitsu Server PRIMERGY RX2530 M2

Processor Vendor and Model	Intel Xeon E5-2698 v4
Processor Speed (GHz)	2.2
Total Sockets/Total Cores/Total Threads	1 Sockets / 20 Cores / 40 Threads
Memory Size (in GB, Number of DIMMs)	Hypervisor: 64GB, 8
Network Controller(s) Vendors and Models	Emulex OneConnect Oce14000 1GbE Dual Port Adapter
Operating System, Version, Bitness, and Service Pack	Hypervisor: VMware ESXi 6.0.0 U2 Build 3620759
Virtual Center VM Number of vCPUs	8
Virtual Center VM Virtual Memory (in GB)	32
Virtual Center VM Operating System, Version, Bitness, and Service Pack	Microsoft Windows Server 2008 R2 (64-bit)
Other Hardware	None
Other Software	None

Clients

Total Number of Virtual Clients / Virtual Client Hosts	9 / 3
System Model(s)	Fujitsu PRIMERGY RX2530 M2
Processor Vendor(s) and Model(s)	Intel Xeon E5-2699 v4
Processor Speed(s) (GHz)	2.2
Total Sockets/Total Cores/Total Threads	2 Sockets / 44 Cores / 88 Threads
Memory per Virtual Client Host	128 GB
Network Controller(s) Vendors and Models	Emulex OneConnect Oce14000 1GbE Dual Port Adapter Emulex OneConnect Oce14000 10GbE Dual Port Adapter
Virtual Client Networking Notes	1 virtual adapter for management, 1 virtual adapter for workload traffic
Virtual Client Storage Notes	1x300GB SAS 10K TOSHIBA AL14SEB03EN HDD with RAID 0 for Client Host OS 2x400GB SAS 12G TOSHIBA PX02SMF040 SSD with RAID 0 for Client VMs
Other Hardware	None
Other Software	VMware ESXi 6.0.0 U2 Build 3620759

Notes for Workload

Virtualization Software Notes

- CDROM removed for all VMs except primeclient (default enabled)
- Config.HostAgent.log.level set to warning (default info)
- Vpx.Vpxa.config.log.level set to warning (default verbose)
- CPU and Memory shares set to high for all DS3DB VMs (default normal)
- Floppy removed for all VMs except primeclient (default enabled)
- Logging disabled for all VMs except primeclient (default enabled)
- Logical CPU configuration changed for multi-cpu VMs to 1 socket with multiple cores except primeclient and client VMs (default: Single core per socket)
- All memory reserved for DS3DB VMs
- Syslog.global.defaultSize set to 112 (default 1024)
- CPU shares set to low for all Standby VMs (default normal)
- vSphere DRS Migration Threshold set to Fully Automated level 2
- The 'Intel® "Broadwell" Generation' EVC mode was enabled on the cluster

Changes in esx.conf:

- /adv/Cpu/CreditAgePeriod = 1000 (default 3000)
- /adv/Cpu/HTWholeCoreThreshold = 0 (default 800)
- /adv/DataMover/HardwareAcceleratedInit = 0 (default 1)
- /adv/DataMover/HardwareAcceleratedMove = 0 (default 1)
- /adv/Mem/CtlMaxPercent = 0 (default 65)
- /adv/Mem/ShareScanGHz = 0 (default 4)
- /adv/Numa/LTermFairnessInterval = 0 (default 5)
- /adv/Numa/MigImbalanceThreshold = 57 (default 10)
- /adv/Numa/PageMigEnable = 0 (default 1)
- /adv/Numa/RebalancePeriod = 60000 (default 2000)
- /adv/Numa/SwapLoadEnable = 0 (default 1)
- /adv/Numa/SwapLocalityEnable = 0 (default 1)
- /adv/Mem/VMOverheadGrowthLimit = 0 (default 4294967295)
- /adv/Disk/ReqCallThreshold = 1 (default 8)
- /adv/Disk/IdleCredit = 64 (default 32)
- /adv/Power/CpuPolicy = static (default balanced)
- /adv/VMFS3/HardwareAcceleratedLocking = 0 (default 1)
- /adv/UserVars/SuppressShellWarning = 1 (default 0)
- /adv/Net/FollowHardwareMac = 1 (default 0)

Server Notes

- Server BIOS settings:
 - Onboard Serial COM1 disabled (default enabled)
 - Turbo Boost Technology: enabled (Intel Turbo Boost up to 3.8GHz, default enabled)
 - CPU C1E support: disabled (default enabled)
 - Package C State Limit: C0 (default auto)
 - Uncore Frequency Override: Maximum (default disabled)
 - Link Frequency Select: 10.4GT/s (default auto)
 - IMC Interleaving: 1-way (default auto)

- LLC Dead Line Alloc: disabled (default enabled)
- Stale Atos: enabled (default disabled)

Networking Notes

- vSwitch Configuration:
 - vSwitch0 on vmnic0 for Service Console (1Gb/s)
 - vSwitch1 for DS3 and standby workload on vmnic2 at 10Gb/s
 - vSwitch2 for Elastic Workload on vmnic3 at 10Gb/s
 - vSwitch3 for vMotion connection on vmnic5 at 10Gb/s
 - 9000 MTU (default 1500)
 - vSwitch4 for Auction Workload on vmnic4 at 10Gb/s

Storage Notes

- First Fujitsu Server PRIMERGY RX2540 M2 configured as a Fibre Channel Target:
 - Hardware details:
 - 2 x Intel Xeon E5-2667 v4@3.2GHz processors
 - 128GB RAM (8 x 16 GB dual rank PC4-19200 Registered DDR4 / 2400 MHz DIMMs)
 - 1 x QLogic QLE2672 Dual Port 16Gb FC HBA used as FC target controller
 - 1 x Fujitsu RAID SAS Controller with 1GB Cache (D3108)
 - 1 x 400GB SAS-SSD Toshiba PX02SMF040
 - 1 x Fusion ioMemory PX600 1.3TB PCIe-SSD
 - 3 x Fusion ioMemory PX600 2.6TB PCIe-SSD
 - Software details:
 - Operating System: SUSE Linux Enterprise Server 12 SP2 - 4.4.74-92.29-default (64-bit)
 - Fibre Channel Target SW: LIO (part of SUSE Linux Enterprise Server 12 SP2)

RAID configuration:

- SAS-SSD 1:
 - LUN 1: Storage system OS (400GB, this LUN is not counted in the Storage section)
- First PCIe-SSD:
 - LUN 1: DS3DB for tiles 0 (600GB)
 - LUN 2: DS3DB for tiles 6 (600GB)
 - LUN 3: AuctionDB for tiles 0 (400GB)
 - LUN 4: AuctionNoSQL for tiles 0 (400GB)
- Second PCIe-SSD:
 - LUN 1: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 0 (400GB)
 - LUN 2: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 3 (400GB)
 - LUN 3: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 6 (400GB)
- Third PCIe-SSD:
 - LUN 1: DS3DB for tiles 3 (600GB)
 - LUN 2: AuctionNoSQL for tiles 3 (600GB)
 - LUN 3: AuctionDB for tiles 3 (400GB)
 - LUN 4: AuctionDB for tiles 6 (400GB)

- Fourth PCIe-SSD:
 - LUN 1: Elastic VMs for tiles 0 (400GB)
 - LUN 2: Elastic VMs for tiles 3 (400GB)
 - LUN 3: Elastic VMs for tiles 6 (400GB)
- Second Fujitsu Server PRIMERGY RX2540 M2 configured as a Fibre Channel Target:
 - Hardware details:
 - 2 x Intel Xeon E5-2667 v4@3.2GHz processors
 - 128GB RAM (8 x 16 GB dual rank PC4-19200 Registered DDR4 / 2400 MHz DIMMs)
 - 1 x QLogic QLE2672 Dual Port 16Gb FC HBA used as FC target controller
 - 1 x Fujitsu RAID SAS Controller with 1GB Cache (D3108)
 - 1 x 400GB SAS-SSD Toshiba PX02SMF040
 - 1 x Fusion ioMemory PX600 1.3TB PCIe-SSD
 - 3 x Fusion ioMemory PX600 2.6TB PCIe-SSD
 - Software details:
 - Operating System: SUSE Linux Enterprise Server 12 SP2 - 4.4.74-92.29-default (64-bit)
 - Fibre Channel Target SW: LIO (part of SUSE Linux Enterprise Server 12 SP2)

RAID configuration:

- SAS-SSD 1:
 - LUN 1: Storage system OS (400GB, this LUN is not counted in the Storage section)
- First PCIe-SSD:
 - LUN 1: DS3DB for tiles 1 (600GB)
 - LUN 2: AuctionNoSQL for tiles 1 (600GB)
 - LUN 3: AuctionDB for tiles 1 (400GB)
 - LUN 4: AuctionNoSQL for tiles 6 (400GB)
- Second PCIe-SSD:
 - LUN 1: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 1 (400GB)
 - LUN 2: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 4 (400GB)
 - LUN 3: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 7 (400GB)
- Third PCIe-SSD:
 - LUN 1: DS3DB for tiles 4 (600GB)
 - LUN 2: AuctionNoSQL for tiles 4 (600GB)
 - LUN 3: AuctionDB for tiles 4 (400GB)
 - LUN 4: AuctionNoSQL for tiles 7 (400GB)
- Fourth PCIe-SSD:
 - LUN 1: Elastic VMs for tiles 1 (400GB)
 - LUN 2: Elastic VMs for tiles 4 (400GB)
 - LUN 3: Elastic VMs for tiles 7 (400GB)
- Third Fujitsu Server PRIMERGY RX2540 M2 configured as a Fibre Channel Target:
 - Hardware details:
 - 2 x Intel Xeon E5-2667 v4@3.2GHz processors

- 128GB RAM (8 x 16 GB dual rank PC4-19200 Registered DDR4 / 2400 MHz DIMMs)
- 1 x QLogic QLE2672 Dual Port 16Gb FC HBA used as FC target controller
- 1 x Fujitsu RAID SAS Controller with 1GB Cache (D3108)
- 1 x 400GB SAS-SSD Toshiba PX02SMF040
- 1 x Fusion ioMemory PX600 1.3TB PCIe-SSD
- 3 x Fusion ioMemory PX600 2.6TB PCIe-SSD

- Software details:

- Operating System: SUSE Linux Enterprise Server 12 SP2 - 4.4.74-92.29-default (64-bit)
- Fibre Channel Target SW: LIO (part of SUSE Linux Enterprise Server 12 SP2)

RAID configuration:

- SAS-SSD 1:

- LUN 1: Storage system OS (400GB, this LUN is not counted in the Storage section)

- First PCIe-SSD:

- LUN 1: DS3DB for tiles 2 (600GB)
- LUN 2: DS3DB for tiles 7 (600GB)
- LUN 3: AuctionDB for tiles 2 (400GB)
- LUN 4: AuctionNoSQL for tiles 2 (400GB)

- Second PCIe-SSD:

- LUN 1: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 2 (400GB)
- LUN 2: DS3WebA, DS3WebB, DS3WebC, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionLB, AuctionMSQ, Standby for tiles 5 (400GB)
- LUN 3: SVMotion Target Lun (100GB)
- LUN 4: XVMotion Target Lun (100GB)
- LUN 5: Deploy Lun (100GB)
- LUN 6: vmmark3-template-053117 (100GB)

- Third PCIe-SSD:

- LUN 1: DS3DB for tiles 5 (600GB)
- LUN 2: AuctionNoSQL for tiles 5 (600GB)
- LUN 3: AuctionDB for tiles 5 (400GB)
- LUN 4: AuctionDB for tiles 7 (400GB)

- Fourth PCIe-SSD:

- LUN 1: Elastic VMs for tiles 2 (400GB)
- LUN 2: Elastic VMs for tiles 5 (400GB)

- Fujitsu ETERNUS DX100 S3(2disks):

- RAID set 0: (2 disks)

- LUN 0: Boot/Console OS for SUT1 (20GB)
- LUN 0: Boot/Console OS for SUT2 (20GB)

- All LUNs were configured as block devices; no system memory was used for caching

Datacenter Management Server Notes

- Virtual Center realized as a VM running on a dedicated Hypervisor system:

- Number of vCPUs: 8 (Two vSocket)
- Size of vRAM: 32GB
- Operating System: Windows Server 2008 R2 Enterprise 64-bit

Operating System Notes

VMware ESXi 6.5.0b Build 5146846 was installed using 'Fujitsu Custom Image for VMware ESXi 6.5' named VMware-ESXi-6.5.0-5146846-Fujitsu-v401-1.iso

Software Notes

None

Client Notes

Client Host1: Client0,Client3,Client6

Client Host2: Client1,Client4,Client7

Client Host3: Client2,Client5,PrimeClient

Changes in esx.conf:

- /adv/Power/CpuPolicy = "static" (default balanced)
- /adv/UserVars/SuppressShellWarning = 1 (default 0)

elxnet and lpfc module updated after ClientHost's OS was installed

Other Notes

None

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/products/vmmark.

VMware and VMmark are trademarks or registered trademarks of VMware, Inc. VMmark is a product of [VMware, Inc.](http://www.vmware.com) VMmark utilizes the SPEC Power and Temperature Daemon (SPEC PTDaemon), which is available from the Standard Performance Evaluation Corporation (SPEC®). VMmark results are not SPEC metrics and cannot be compared to SPEC metrics in any way.