

VMmark [®] 4.0.2 Disclosure											
Server Vendor & Model: HPE ProLiant Compute DL340 Gen12 Storage Vendor & Model: VMware vSAN 8.0 Update 3 ESA - All Flash Hypervisor: VMware ESXi 8.0 Update 3e, Build 24674464 Server Management Software: VMware vCenter Server 8.0 Update 3d, Build 24322831						VMmark 4.0.2 Score = 3.39 @ 3.8 Tiles					
Number of Hosts: 4			Uniform Hosts: yes				Total sockets/cores/threads in test: 4/344/688				
Tested By: Hewlett Packard Enterprise			Test Date: 04-21-2025				SUT Availability Date: 04-10-2025				
Performance Section Performance		Configuration Section Configuration			Notes Section Notes for Workload			Virtual Machines Section Virtual Machines			

Performance

TILE_0_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14143.68	9252.88	2969.28	2297.80	1696.40	60578.75	60578.80	60578.96	71.98	1.00	
p1	14146.58	9249.13	2966.03	2133.20	1602.95	57921.63	57921.82	57921.25	71.97	1.00	
p2	14131.20	9237.27	2948.18	2261.38	1674.67	55498.27	55498.19	55498.52	71.93	1.00	
TILE_0_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.02	1.07	1.11	1.07	1.07	1.07	1.00	1.00	1.05
p1	1.01	1.01	1.02	0.99	1.05	1.03	1.03	1.03	1.00	1.00	1.02
p2	1.01	1.00	1.02	1.05	1.09	0.98	0.98	0.98	1.00	1.00	1.01
TILE_0_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.34 0.05	0.30 0.00	376.52	384.32	397.17	0.57	0.57	0.57			
p1	0.34 0.02	0.35 0.00	384.64	401.91	411.36	0.63	0.63	0.63			
p2	0.41 0.04	0.35 0.00	393.79	412.77	414.12	0.65	0.65	0.65			
TILE_1_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14142.97	9245.10	2975.55	2255.93	1742.08	61414.01	61414.13	61414.56	72.03	1.00	
p1	14144.92	9265.71	2971.43	2119.72	1518.30	58456.28	58455.57	58455.67	72.04	1.00	
p2	14131.46	9241.44	2956.03	2237.82	1714.83	55935.67	55935.91	55936.16	72.02	1.00	
TILE_1_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.00	1.03	1.05	1.14	1.09	1.09	1.09	1.00	1.00	1.05
p1	1.01	1.01	1.02	0.99	0.99	1.03	1.03	1.03	1.00	1.00	1.01
p2	1.01	1.00	1.02	1.04	1.12	0.99	0.99	0.99	1.00	1.00	1.02
TILE_1_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.35 0.02	0.32 0.00	375.87	415.72	420.70	0.57	0.57	0.57			
p1	0.37 0.02	0.33 0.00	380.32	409.93	433.20	0.62	0.62	0.62			
p2	0.50 0.09	0.36 0.00	392.53	429.54	447.51	0.64	0.64	0.64			

TILE_2_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby				
p0	14154.01	9253.22	2837.15	2021.25	1519.30	60813.99	60813.97	60813.36	72.04	1.00				
p1	14151.47	9257.27	2794.65	1997.10	1435.53	58109.01	58109.61	58109.77	72.00	1.00				
p2	14135.75	9242.44	2737.80	1967.70	1468.45	55696.79	55696.61	55696.48	71.95	1.00				
TILE_2_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean			
p0	1.01	1.01	0.98	0.94	0.99	1.08	1.08	1.08	1.00	1.00	1.02			
p1	1.01	1.01	0.96	0.93	0.94	1.03	1.03	1.03	1.00	1.00	0.99			
p2	1.01	1.00	0.94	0.92	0.96	0.99	0.99	0.99	1.00	1.00	0.98			
TILE_2_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC						
p0	0.38 0.07	0.31 0.00	473.64	565.78	601.33	0.57	0.57	0.57						
p1	0.40 0.00	0.33 0.00	503.93	587.98	626.49	0.63	0.63	0.63						
p2	0.49 0.02	0.36 0.01	535.25	619.78	668.96	0.65	0.65	0.65						
TILE_3_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby				
p0	N/A	9269.75	3014.75	2237.03	1634.03	69595.59	69596.04	69596.12	72.07	N/A				
p1	N/A	9252.81	2979.80	2224.57	1677.75	65585.42	65585.58	65585.68	72.03	N/A				
p2	N/A	9244.68	2958.75	2203.03	1586.30	62404.27	62404.54	62404.33	72.04	N/A				
TILE_3_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean			
p0	N/A	1.01	1.04	1.04	1.07	1.23	1.23	1.23	1.00	N/A	0.98			
p1	N/A	1.01	1.03	1.03	1.10	1.16	1.16	1.16	1.00	N/A	0.96			
p2	N/A	1.00	1.02	1.02	1.04	1.10	1.10	1.10	1.00	N/A	0.93			
TILE_3_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC						
p0	N/A	0.25 0.00	356.24	372.08	389.36	0.50	0.51	0.50						
p1	N/A	0.26 0.00	374.18	387.58	408.41	0.56	0.56	0.56						
p2	N/A	0.29 0.00	385.17	402.00	435.89	0.57	0.57	0.57						
p0_score:	4.10													
p1_score:	3.98													
p2_score:	3.94													
Infrastructure_Operations_Scores:						vMotion		SVMotion		XVMotion		Deploy		
Completed_Ops_PerHour						29.00		14.00		14.00		14.50		
Avg_Seconds_To_Complete						2.02		50.93		51.68		206.34		
Failures						0.00		0.00		0.00		0.00		
Ratio						0.98		1.08		1.08		1.00		
Number_Of_Threads						1		1		1		1		
Summary						Run_Is_Compliant			Median_Phase(p1)					
Unreviewed_VMmark4_Applications_Score						3.98								
Unreviewed_VMmark4_Infrastructure_Score						1.03								
Unreviewed_VMmark4_Score						3.39 @ 3.8 Tiles								

Configuration

Virtualization Software																																																																								
Hypervisor Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware ESXi 8.0 Update 3e, Build 24674464 / 04-10-2025																																																																							
Server Management Software Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware vCenter Server 8.0 Update 3d, Build 24322831 / 10-21-2024																																																																							
Supplemental Software	None																																																																							
Servers																																																																								
Number of Servers in System Under Test (all subsequent fields in this section are per Server)	4																																																																							
Server Manufacturer and Model	HPE ProLiant Compute DL340 Gen12																																																																							
Processor Vendor and Model	Intel Xeon 6787P																																																																							
Processor Speed (GHz) / Turbo Boost Speed (GHz)	2.0 GHz / 3.8 GHz																																																																							
Total Sockets/Total Cores/Total Threads	1 Sockets / 86 Cores / 172 Threads																																																																							
NUMA Nodes	2																																																																							
BIOS Version	1.30																																																																							
Memory Size (in GB, Number of DIMMs)	Physical Memory (BIOS): 1024 GB Physical Memory (ESXi): 1024 GB Number of DIMMs: 8																																																																							
Memory Type and Speed	<table><tr><th>Location</th><th>Size</th><th>Speed</th><th>Max Speed</th><th>Rank</th><th>Type</th><th>Detail</th></tr><tr><td>PROC 1 DIMM 1</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 1 DIMM 3</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 1 DIMM 5</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 1 DIMM 7</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 1 DIMM 10</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 1 DIMM 12</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 1 DIMM 14</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr><tr><td>PROC 1 DIMM 16</td><td>128 GB</td><td>6400 MT/s</td><td>6400 MT/s</td><td>2</td><td>DDR5</td><td>Synchronous, Registered</td></tr></table>							Location	Size	Speed	Max Speed	Rank	Type	Detail	PROC 1 DIMM 1	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	PROC 1 DIMM 3	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	PROC 1 DIMM 5	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	PROC 1 DIMM 7	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	PROC 1 DIMM 10	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	PROC 1 DIMM 12	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	PROC 1 DIMM 14	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	PROC 1 DIMM 16	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered		
	Location	Size	Speed	Max Speed	Rank	Type	Detail																																																																	
	PROC 1 DIMM 1	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																	
	PROC 1 DIMM 3	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																	
	PROC 1 DIMM 5	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																	
	PROC 1 DIMM 7	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																	
	PROC 1 DIMM 10	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																	
	PROC 1 DIMM 12	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																	
	PROC 1 DIMM 14	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																	
PROC 1 DIMM 16	128 GB	6400 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																		
Number of SAS Devices	0																																																																							
SAS Device Vendors and Models	None																																																																							

Number of Virtual Host Bus Adapters	4									
Virtual Host Bus Adapter Vendors and Models	HBA		Model		Speed	Driver	Firmware			
	vmhba0		HPE SN1700Q 64Gb 2p FC Adapter		64 Gbps	qlnativefc	9.15.05 (d0d5)			
	vmhba1		HPE SN1700Q 64Gb 2p FC Adapter		64 Gbps	qlnativefc	9.15.05 (d0d5)			
	vmhba64		HPE SN1700Q 64Gb 2p FC Adapter		64 Gbps	qlnativefc	9.15.05 (d0d5)			
	vmhba65		HPE SN1700Q 64Gb 2p FC Adapter		64 Gbps	qlnativefc	9.15.05 (d0d5)			
Power Supply Quantity, Name/Part Number, Wattage, Firmware, and Type (Voltage, AC/DC)	• 2 * HPE 1500W M-CRPS Hot Plug Titanium Hot Plug Power Supply Kit (P67244-B21) • Voltage Type: AC • Input Voltage: High-line (HL): 200 - 240 VAC									
Cooling Type (Air Cooling, Closed Loop Cooling, Direct Liquid Cooling, or Other)	Air Cooling									
Other Hardware	FC Switch: SN6700B 64Gb 56/24 24P SFP56									
Other Software	None									
BIOS Availability Date (MM-DD-YYYY)	03-21-2025									
Hardware Availability Date (MM-DD-YYYY)	03-25-2025									
Software Availability Date (MM-DD-YYYY)	04-10-2025									
Network										
Number of Virtual Network Controllers	4									
Virtual Network Controllers, Speeds, MTUs, Firmware, Drivers, Vendors, and Models	Device	Speed	Duplex	MTU	Firmware	Driver	Description			
	vmnic0	100 Gbps	Full	9000	22.41.1000	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)			
	vmnic1	100 Gbps	Full	9000	22.41.1000	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)			
	vmnic2	100 Gbps	Full	9000	2.00 0x80003e4b 1.2751.0	icen	Intel(R) Ethernet Controller E810-C for QSFP			
	vmnic3	100 Gbps	Full	9000	2.00 0x80003e4b 1.2751.0	icen	Intel(R) Ethernet Controller E810-C for QSFP			
Number of Virtual Switches	2									
Virtual Switches, Ports, Port Groups, MTUs, and Uplinks	Switch	Ports	Configured Ports	MTU	Uplinks					
	vSwitch0	9216	128	9000	vmnic2					
	DSwitch	9216	512	9000	vmnic0, vmnic1, vmnic3					
	Switch	Port Group		VLAN ID	Uplinks					
	vSwitch0	Management Network		0	vmnic2					
	vSwitch0	VM Network		0	vmnic2					

	<table><tr><td>vSwitch0</td><td>VMkernel</td><td>0</td><td>vmnic2</td></tr><tr><td>DSwitch</td><td>DSwitch-VM-Network</td><td>0</td><td>vmnic1,vmnic3</td></tr><tr><td>DSwitch</td><td>DSwitch-vSAN</td><td>0</td><td>vmnic0</td></tr></table>	vSwitch0	VMkernel	0	vmnic2	DSwitch	DSwitch-VM-Network	0	vmnic1,vmnic3	DSwitch	DSwitch-vSAN	0	vmnic0																																																																																																																					
vSwitch0	VMkernel	0	vmnic2																																																																																																																															
DSwitch	DSwitch-VM-Network	0	vmnic1,vmnic3																																																																																																																															
DSwitch	DSwitch-vSAN	0	vmnic0																																																																																																																															
VMkernel Network Adapters, Port Groups, MTUs, TCP/IP Stacks, and Services	<table><tr><td>Device</td><td>Port Group/DVPort</td><td>MTU</td><td>TCP/IP Stack</td><td>Services</td></tr><tr><td>vmk0</td><td>Management Network</td><td>1500</td><td>Default</td><td>Management</td></tr><tr><td>vmk1</td><td>BMC_Network</td><td>1500</td><td>Default</td><td>None</td></tr><tr><td>vmk2</td><td>VMkernel</td><td>9000</td><td>vMotion</td><td>vMotion</td></tr><tr><td>vmk3</td><td>8</td><td>9000</td><td>Default</td><td>vSAN</td></tr></table>	Device	Port Group/DVPort	MTU	TCP/IP Stack	Services	vmk0	Management Network	1500	Default	Management	vmk1	BMC_Network	1500	Default	None	vmk2	VMkernel	9000	vMotion	vMotion	vmk3	8	9000	Default	vSAN																																																																																																								
Device	Port Group/DVPort	MTU	TCP/IP Stack	Services																																																																																																																														
vmk0	Management Network	1500	Default	Management																																																																																																																														
vmk1	BMC_Network	1500	Default	None																																																																																																																														
vmk2	VMkernel	9000	vMotion	vMotion																																																																																																																														
vmk3	8	9000	Default	vSAN																																																																																																																														
Physical Switch Vendors, Models, and Speeds	HPE SN2700M 100GbE 32QSFP28																																																																																																																																	
Primary Storage																																																																																																																																		
Storage Category	VMware vSAN 8.0 Update 3 ESA - All Flash																																																																																																																																	
Datastores	<table><tr><td>Datastores</td><td>Type</td><td>Size</td><td>Storage Device</td></tr><tr><td>LIO-Dep1</td><td>VMFS-6</td><td>6.4 TB</td><td>LIO-ORG Fibre Channel Disk</td></tr><tr><td>LIO-Dep2</td><td>VMFS-6</td><td>6.4 TB</td><td>LIO-ORG Fibre Channel Disk</td></tr><tr><td>LIO-SVM1</td><td>VMFS-6</td><td>6.4 TB</td><td>LIO-ORG Fibre Channel Disk</td></tr><tr><td>LIO-SVM2</td><td>VMFS-6</td><td>6.4 TB</td><td>LIO-ORG Fibre Channel Disk</td></tr><tr><td>LIO-XVM1</td><td>VMFS-6</td><td>6.4 TB</td><td>LIO-ORG Fibre Channel Disk</td></tr><tr><td>LIO-XVM2</td><td>VMFS-6</td><td>6.4 TB</td><td>LIO-ORG Fibre Channel Disk</td></tr><tr><td>OSDATA-3a531a18-393d1931-7d3d-88e9a44bdb0a</td><td>VMFSOS</td><td>128.6 GB</td><td>Local NVMe Disk</td></tr><tr><td>vsanDatastore</td><td>vSAN</td><td>204.8 TB</td><td>vSAN</td></tr></table>				Datastores	Type	Size	Storage Device	LIO-Dep1	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk	LIO-Dep2	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk	LIO-SVM1	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk	LIO-SVM2	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk	LIO-XVM1	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk	LIO-XVM2	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk	OSDATA-3a531a18-393d1931-7d3d-88e9a44bdb0a	VMFSOS	128.6 GB	Local NVMe Disk	vsanDatastore	vSAN	204.8 TB	vSAN																																																																																										
Datastores	Type	Size	Storage Device																																																																																																																															
LIO-Dep1	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk																																																																																																																															
LIO-Dep2	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk																																																																																																																															
LIO-SVM1	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk																																																																																																																															
LIO-SVM2	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk																																																																																																																															
LIO-XVM1	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk																																																																																																																															
LIO-XVM2	VMFS-6	6.4 TB	LIO-ORG Fibre Channel Disk																																																																																																																															
OSDATA-3a531a18-393d1931-7d3d-88e9a44bdb0a	VMFSOS	128.6 GB	Local NVMe Disk																																																																																																																															
vsanDatastore	vSAN	204.8 TB	vSAN																																																																																																																															
Number of Storage Devices	15																																																																																																																																	
Storage Device Names, Sizes, Types, Vendors, Models, and Revisions	<table><tr><td>Storage Device</td><td>Size</td><td>Type</td><td>Vendor</td><td>Model</td><td>Revision</td><td>Path Selection Policy</td><td>Path Selection Policy Config</td><td># Working Paths</td></tr><tr><td>Local NVMe Disk (Boot Device)</td><td>480.0 GB</td><td>Direct-Access</td><td>NVMe</td><td>HPE NS204i-u Gen11 Boot Controller</td><td>12141018</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>LIO-ORG Fibre Channel Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>LIO-ORG</td><td>LIO-SVM2</td><td>4.0</td><td>VMW_PSP_MRU</td><td>Current Path=vmhba0:C0:T1:L1</td><td>1</td></tr><tr><td>LIO-ORG Fibre Channel Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>LIO-ORG</td><td>LIO-XVM2</td><td>4.0</td><td>VMW_PSP_MRU</td><td>Current Path=vmhba1:C0:T2:L0</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>LIO-ORG Fibre Channel Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>LIO-ORG</td><td>LIO-SVM1</td><td>4.0</td><td>VMW_PSP_MRU</td><td>Current Path=vmhba0:C0:T1:L0</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>LIO-ORG Fibre Channel Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>LIO-ORG</td><td>LIO-Dep1</td><td>4.0</td><td>VMW_PSP_MRU</td><td>Current Path=vmhba0:C0:T2:L0</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr><tr><td>LIO-ORG Fibre Channel Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>LIO-ORG</td><td>LIO-Dep2</td><td>4.0</td><td>VMW_PSP_MRU</td><td>Current Path=vmhba0:C0:T2:L1</td><td>1</td></tr></table>				Storage Device	Size	Type	Vendor	Model	Revision	Path Selection Policy	Path Selection Policy Config	# Working Paths	Local NVMe Disk (Boot Device)	480.0 GB	Direct-Access	NVMe	HPE NS204i-u Gen11 Boot Controller	12141018	FIXED	preferred=none	1	LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-SVM2	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T1:L1	1	LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-XVM2	4.0	VMW_PSP_MRU	Current Path=vmhba1:C0:T2:L0	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1	LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-SVM1	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T1:L0	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1	LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-Dep1	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T2:L0	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1	LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-Dep2	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T2:L1	1
Storage Device	Size	Type	Vendor	Model	Revision	Path Selection Policy	Path Selection Policy Config	# Working Paths																																																																																																																										
Local NVMe Disk (Boot Device)	480.0 GB	Direct-Access	NVMe	HPE NS204i-u Gen11 Boot Controller	12141018	FIXED	preferred=none	1																																																																																																																										
LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-SVM2	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T1:L1	1																																																																																																																										
LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-XVM2	4.0	VMW_PSP_MRU	Current Path=vmhba1:C0:T2:L0	1																																																																																																																										
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1																																																																																																																										
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1																																																																																																																										
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1																																																																																																																										
LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-SVM1	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T1:L0	1																																																																																																																										
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1																																																																																																																										
LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-Dep1	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T2:L0	1																																																																																																																										
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1																																																																																																																										
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1																																																																																																																										
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1																																																																																																																										
LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-Dep2	4.0	VMW_PSP_MRU	Current Path=vmhba0:C0:T2:L1	1																																																																																																																										

	<table><tr><td>LIO-ORG Fibre Channel Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>LIO-ORG</td><td>LIO-XVM1</td><td>4.0</td><td>VMW_PSP_MRU</td><td>Current Path=vmhba1:C0:T3:L0</td><td>1</td></tr><tr><td>Local NVMe Disk</td><td>6.4 TB</td><td>Direct-Access</td><td>NVMe</td><td>MV006400LXUJL</td><td>HPK6</td><td>FIXED</td><td>preferred=none</td><td>1</td></tr></table>	LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-XVM1	4.0	VMW_PSP_MRU	Current Path=vmhba1:C0:T3:L0	1	Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1
LIO-ORG Fibre Channel Disk	6.4 TB	Direct-Access	LIO-ORG	LIO-XVM1	4.0	VMW_PSP_MRU	Current Path=vmhba1:C0:T3:L0	1											
Local NVMe Disk	6.4 TB	Direct-Access	NVMe	MV006400LXUJL	HPK6	FIXED	preferred=none	1											
How Datastores Map to Storage Devices	See Storage Notes Section																		
VMware vSAN Configuration (if used)	VMware vSAN ESA Configuration (per host): 8 x SSDs - On-Disk Format Version: 20 - Disk Models: - MV006400LXUJL - MV006400LXUJL - MV006400LXUJL - MV006400LXUJL - MV006400LXUJL - MV006400LXUJL - MV006400LXUJL - MV006400LXUJL																		
RAID Configuration (if used)	None																		
Server Management																			
VMware vCenter Server Number of vCPUs	16																		
VMware vCenter Server Virtual Memory (in GB)	40																		
Clients																			
Total Client VMs (including Prime Client)	5																		
Number of Client Hosts (all subsequent fields in this section are per Client Host)	6																		
System Model(s)	- Client Host 1: HPE ProLiant DL345 Gen11 - Client Host 2: HPE ProLiant DL345 Gen11 - Client Host 3: HPE ProLiant DL345 Gen11 - Client Host 4: HPE ProLiant DL345 Gen11 - Client Host 5: HPE ProLiant DL345 Gen11 - Client Host 6: HPE ProLiant DL345 Gen11																		
Processor Vendor(s) and Model(s)	- Client Host 1: AMD EPYC 9654P - Client Host 2: AMD EPYC 9654P - Client Host 3: AMD EPYC 9654P - Client Host 4: AMD EPYC 9654P - Client Host 5: AMD EPYC 9654P - Client Host 6: AMD EPYC 9654P																		
Processor Speed(s) (GHz)	Client Host 1: 2.4 GHz																		

	- Client Host 2: 2.4 GHz - Client Host 3: 2.4 GHz - Client Host 4: 2.4 GHz - Client Host 5: 2.4 GHz - Client Host 6: 2.4 GHz									
Total Sockets/Total Cores/Total Threads	Client Host		Sockets	Cores	Threads					
	Client Host 1		1	96	192					
	Client Host 2		1	96	192					
	Client Host 3		1	96	192					
	Client Host 4		1	96	192					
	Client Host 5		1	96	192					
	Client Host 6		1	96	192					
	Total		6	576	1152					
NUMA Nodes	- Client Host 1: 1 - Client Host 2: 1 - Client Host 3: 1 - Client Host 4: 1 - Client Host 5: 1 - Client Host 6: 1									
Memory Size (in GB) per Client Host	Client Host		BIOS	ESXi						
	Client Host 1		512 GB	512 GB						
	Client Host 2		512 GB	512 GB						
	Client Host 3		512 GB	512 GB						
	Client Host 4		512 GB	512 GB						
	Client Host 5		512 GB	512 GB						
	Client Host 6		512 GB	512 GB						
Virtual Network Controllers, Speeds, MTUs, Firmware, Drivers, Vendors, and Models	Client Host		Device	Speed	Duplex	MTU	Firmware	Driver	Description	
	Client Host 1	vmnic0	100 Gbps	Full	1500	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)		
		vmnic1	100 Gbps	Full	1500	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)		
		vmnic2	1 Gbps	Full	1500	1.63.0:0x80001234:1.3682.0	igbn	Intel(R) I350 Gigabit Network Connection		
	Client Host 2	vmnic0	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)		
		vmnic1	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)		
		vmnic2	1 Gbps	Full	1500	1.63.0:0x80001234:1.3682.0	igbn	Intel(R) I350 Gigabit Network Connection		
	Client Host 3	vmnic0	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)		

		vmnic1	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)	
		vmnic2	1 Gbps	Full	1500	1.63.0:0x80001234:1.3682.0	igbn	Intel(R) I350 Gigabit Network Connection	
	Client Host 4	vmnic0	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)	
		vmnic1	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)	
		vmnic2	1 Gbps	Full	1500	1.63.0:0x80001234:1.3682.0	igbn	Intel(R) I350 Gigabit Network Connection	
	Client Host 5	vmnic0	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)	
		vmnic1	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)	
		vmnic2	1 Gbps	Full	1500	1.63.0:0x80001234:1.3682.0	igbn	Intel(R) I350 Gigabit Network Connection	
	Client Host 6	vmnic0	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)	
		vmnic1	100 Gbps	Full	9000	22.43.1014	nmlx5_core	Mellanox Technologies ConnectX-6 Dx EN NIC; 100GbE; dual-port QSFP56; PCIe4.0 x16; (MCX623106AS-CDA)	
		vmnic2	1 Gbps	Full	1500	1.63.0:0x80001234:1.3682.0	igbn	Intel(R) I350 Gigabit Network Connection	

Virtual Switches, Ports, Port Groups, MTUs, and Uplinks	Client Host	Switch	Ports	Configured Ports	MTU	Uplinks	
	Client Host 1	vSwitch0	9216	128	1500	vmnic2	
	Client Host 2	vSwitch0	9216	128	1500	vmnic2	
		DSwitch	9216	512	9000	vmnic0, vmnic1	
	Client Host 3	vSwitch0	9216	128	1500	vmnic2	
		DSwitch	9216	512	9000	vmnic0, vmnic1	
	Client Host 4	vSwitch0	9216	128	1500	vmnic2	
		DSwitch	9216	512	9000	vmnic0, vmnic1	
	Client Host 5	vSwitch0	9216	128	1500	vmnic2	
		DSwitch	9216	512	9000	vmnic0, vmnic1	
	Client Host 6	vSwitch0	9216	128	1500	vmnic2	
		DSwitch	9216	512	9000	vmnic0, vmnic1	
	Client Host	Switch	Port Group		VLAN ID	Uplinks	
	Client Host 1	vSwitch0	Management Network		0	vmnic2	
		vSwitch0	VM Network		0	vmnic2	
	Client Host 2	vSwitch0	Management Network		0	vmnic2	
		vSwitch0	VM Network		0	vmnic2	
		DSwitch	DSwitch-VM-Network		0	vmnic0,vmnic1	
	Client Host 3	vSwitch0	Management Network		0	vmnic2	
		vSwitch0	VM Network		0	vmnic2	

			DSwitch	DSwitch-VM-Network	0	vmnic0,vmnic1
		Client Host 4	vSwitch0	Management Network	0	vmnic2
			vSwitch0	VM Network	0	vmnic2
			DSwitch	DSwitch-VM-Network	0	vmnic0,vmnic1
		Client Host 5	vSwitch0	Management Network	0	vmnic2
			vSwitch0	VM Network	0	vmnic2
			DSwitch	DSwitch-VM-Network	0	vmnic0,vmnic1
		Client Host 6	vSwitch0	Management Network	0	vmnic2
			vSwitch0	VM Network	0	vmnic2
			DSwitch	DSwitch-VM-Network	0	vmnic0,vmnic1
VMkernel Network Adapters, Port Groups, MTUs, TCP/IP Stacks, and Services	Client Host	Device	Port Group/DVPort	MTU	TCP/IP Stack	Services
	Client Host 1	vmk0	Management Network	1500	Default	Management
	Client Host 2	vmk0	Management Network	1500	Default	Management
	Client Host 3	vmk0	Management Network	1500	Default	Management
	Client Host 4	vmk0	Management Network	1500	Default	Management
	Client Host 5	vmk0	Management Network	1500	Default	Management
	Client Host 6	vmk0	Management Network	1500	Default	Management
Client Storage Notes	See Client Notes Section					
Other Hardware	None					
Other Software	VMware ESXi 8.0 Update 3e, Build 24674464					

Notes for Workload

Template deployed with disk type: Thick Eager

Virtualization Software Notes

- vSphere DRS Enabled
- vSphere DRS Automation Level set to Fully Automated
- vSphere DRS Migration Threshold set to 2
- Logical CPU layout changed for all multi-CPU VMs to 1 socket with multiple cores except Client VMs and template VMs (default single core per socket)
- All Client VMs vCPU set to 84 (default 64)
- Logging was disabled for all VMs (default enabled)
- All DS35DB, NoSQLBench, SocialNetwork and Auction K VMs had CPU shares set to High (default Normal)
- All Standby VMs had CPU shares set to Low (default Normal)
- All memory reserved (LockedToMax) for all DS35DB VMs
- sched.mem.lpage.enable1GPage set to TRUE for all DS35DB VMs (default FALSE)
- CD/DVD device was removed from all VMs (default present)
- PrimeClient's second virtual disk configured to be 1.2 TB (default: 50 GB)

SUT Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Host 3	Host 4	Default
Cpu.CreditAgePeriod	1000	1000	1000	1000	3000
Cpu.HTWholeCoreThreshold	0	0	0	0	800
DataMover.HardwareAcceleratedInit	0	0	0	0	1
DataMover.HardwareAcceleratedMove	0	0	0	0	1
Disk.IdleCredit	64	64	64	64	32
Disk.RegCallThreshold	1	1	1	1	8
Mem.CtlMaxPercent	0	0	0	0	65
Mem.ShareScanGHz	0	0	0	0	4
Numa.LTermFairnessInterval	0	0	0	0	5
Numa.LocalityWeightActionAffinity	0	0	0	0	130
Numa.MigImbalanceThreshold	57	57	57	57	10
Numa.PageMigEnable	0	0	0	0	1
Numa.RebalancePeriod	60000	60000	60000	60000	2000
Numa.SwapLoadEnable	0	0	0	0	1
Numa.SwapLocalityEnable	0	0	0	0	1
Power.CpuPolicy	Performance	Performance	Performance	Performance	Balanced
UserVars.HostClientCEIPOptIn	2	2	2	2	0

SUT Host ESXi Module Options:

Module	Host 1	Host 2	Host 3	Host 4	Default
tcpip4	ipv6=1	ipv6=1	ipv6=1	ipv6=1	ipv6=1

Server Notes

- HPE Workload Profile set to "Virtualization - Max Performance" (default: General Power Efficient Compute)
- Thermal Configuration set to Maximum Cooling (default: Optimal Cooling)
- Enhanced Processor Performance set to Aggressive (default: Disabled)
- Memory Patrol Scrubbing set to Disabled (default: Enabled)

Networking Notes

- All SUT and Client hosts (except Client host1) were part of the same distributed vSwitch
- All SUT and Client hosts were additionally configured with vSwitch0
- The MTU of the distributed vSwitch and vSwitch0 on SUT hosts was set to 9000 (default 1500). Except where noted differently below, the same change was made to all vmnics and vmks.

Client host1

- vSwitch0 configuration:
 - Uplink: vmnic2
 - Usage: vmk0 (MTU 1500) - used for management and VM network

SUT hosts

- vSwitch0 configuration:
 - Uplink: vmnic2
 - Usage:
 - vmk0 (MTU 1500) - used for management
 - vmk2 - used for vMotion

Client hosts

- vSwitch0 configuration:
 - Uplink: vmnic2
 - Usage:
 - vmk0 (MTU 1500) - used for management and vMotion
 - One virtual NIC port of PrimeClient VM

Distributed vSwitch configuration

- 'DSwitch-VM-Network' port group:
 - Uplinks:
 - SUT hosts: vmnic1, vmnic3
 - Client hosts: vmnic0, vmnic1
 - Usage:
 - All VMs - including one virtual NIC port of PrimeClient VM
- 'DSwitch-vSAN' port group:
 - Uplinks:
 - SUT hosts: vmnic0
 - Usage:
 - vmk3 on all SUT hosts - used for vSAN

Storage Notes

- On each SUT host, VMware ESXi 8.0 Update 3 was installed on HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device which provides a RAID1 volume on 2 x 480 GB NVMe M.2 SSDs.
- On each client host, VMware ESXi 8.0 Update 3 was installed on HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD.

Primary Storage: VMware vSAN storage

- VMware vSAN 8.0 Update 3 ESA
 - Hardware Configuration
 - 8 x HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD
 - Software Configuration
 - RDMA support service enabled (for vSAN over RDMA feature)
 - SUTs-Optimal Datastore Default Policy-RAID5 was automatically created by vSAN ESA Auto-Policy management, Following changes were made to the policy:
 - "Object space reservation" set to "Thick provisioning" (default: Thin provisioning)

Secondary Storage: FC Channel Target via SCSI Target Server (LIO)

- Hardware Details
 - HPE ProLiant DL380 Gen11
 - 2 x INTEL XEON PLATINUM 8562Y+(2.8 GHz)
 - 512 GB (8 x 64GB 2Rx4 5600 MHz DDR5 RDIMMs)
 - 2 x HPE SN1700Q 64Gb 2-port FC HBA used as FC target controller
 - 1 x HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device
 - 6 x HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a
- Software Details

- Operating System: SUSE Linux Enterprise Server 15 SP5 -5.14.21-150500.53-default
 - Fibre Channel Target SW: LIO (part of SUSE Linux Enterprise Server 15 SP5)
- LUN details
 - 1 x HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device
 - 1 LUN (447 GB)
 - Storage system OS (not exported as FC target LUN)
 - 1 x HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device
 - 1 LUN (447 GB)
 - Storage system OS (not exported as FC target LUN)
 - 2 x HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a
 - 2 LUNs (5.82 TB)
 - Deploy Target LUNs
 - 2 x HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a
 - 2 LUNs (5.82 TB)
 - SVmotion Target LUNs
 - 2 x HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a
 - 2 LUNs (5.82 TB)
 - XVmotion Target LUNs

Server Management Notes

VMware vCenter Server Appliance 8.0 Update 3d, Build 24322831 was hosted on Client host1 which is part of the client cluster

Operating System Notes

SUT Host ESXi Image Profile: HPE-Custom-AddOn_803.0.0.12.1.0-11

Software Notes

None

Client Notes

- vSphere DRS Disabled

Client Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Host 3	Host 4	Host 5	Host 6	Default
UserVars.HostClientCEIPOptIn	2	0	0	0	0	0	0

Client Host ESXi Module Options:

Module	Host 1	Host 2	Host 3	Host 4	Host 5	Host 6	Default
tcpip4	ipv6=1	ipv6=1	ipv6=1	ipv6=1	ipv6=1	ipv6=1	ipv6=1

Client Host ESXi Image Profile: HPE-Custom-AddOn_803.0.0.12.1.0-11

Client Host VMs:

- Client Host 1: VC8
- Client Host 2: Client0

- Client Host 3: Client1
- Client Host 4: Client2
- Client Host 5: Client3
- Client Host 6: PrimeClient

Other Notes

VMmark4.properties Settings

- ReporterSkipNonCompliant = 1 (default 0)
- ErrorImmediate = 1 (default 0)

Virtual Machines

SUT Host Virtual Machines

VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionAppA0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppA1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppA2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppA3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionAppB0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppB1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppB2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppB3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionAppC0	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppC1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppC2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionAppC3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionKA0	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionKA1	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionKA2	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionKA3	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionKB0	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionKB1	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionKB2	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionKB3	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
AuctionKC0	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
AuctionKC1	8	8	32768	TRUE	FALSE	Removed	0	Unlimited	high	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325

[illegible]

[illegible]

VMmark-4.0.2-209-02	4	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	vsanDatastore	dvportgroup-77	17	12325
---------------------	---	---	-------	------	-------	---------	---	-----------	--------	---	-----------	--------	-------	-------	--------	---------------	----------------	----	-------

Client Host Virtual Machines

VM	vCPUs	Cores Per Socket	Memory (MB)	Sync Time	Logging	CD/DVD	CPU Res	CPU Limit	CPU Shares	Mem Res	Mem Limit	Mem Shares	Mem Pin	Mem 1G Page	Disk Shares	Datastore	Port Group	vHW Version	Tools Version
Client0	84	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client-DS1	dvportgroup-77	17	12325
Client1	84	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client-DS2	dvportgroup-77	17	12325
Client2	84	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client-DS3	dvportgroup-77	17	12325
Client3	84	1	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	Client-DS4	dvportgroup-77	17	12325
PrimeClient	4	4	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	PC-DS	VM Network, dvportgroup-77	17	12325
VC8	16	1	39936	FALSE	TRUE	Present	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VC-DS	VM Network	10	12389

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)