

VMmark® 4.0.2 Disclosure

Server Vendor & Model: Lenovo ThinkSystem SR665 V3
Storage Vendor & Model: 6 x Lenovo ThinkSystem SR665
1 x Lenovo ThinkSystem SR655
Hypervisor: VMware ESXi 8.0 Update 3b, Build 24280767
Server Management Software: VMware vCenter Server 8.0 Update 3d, Build 24322831

VMmark 4.0.2 Score =
5.56 @ 6 Tiles

Number of Hosts: 2	Uniform Hosts [yes/no]: yes	Total sockets/cores/threads in test: 4/640/1280
--------------------	-----------------------------	---

Tested By: Lenovo	Test Date: 01-27-2025	SUT Availability Date: 02-13-2025
-------------------	-----------------------	-----------------------------------

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	14141.96	9260.34	3159.55	2336.82	1787.33	76105.72	76105.00	75495.51	59.82	1.00	
p1	14147.22	9236.71	3149.93	2348.95	1703.20	71363.53	71362.23	69941.87	58.92	1.00	
p2	14125.12	9263.31	3142.18	2336.12	1790.22	68706.53	68706.78	66856.14	58.02	1.00	
TILE_0_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.09	1.09	1.17	1.35	1.35	1.34	0.83	1.00	1.12
p1	1.01	1.00	1.09	1.09	1.11	1.26	1.26	1.24	0.82	1.00	1.09
p2	1.01	1.01	1.08	1.09	1.17	1.22	1.22	1.18	0.81	1.00	1.08
TILE_0_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.21 0.01	0.50 0.00	279.87	300.36	311.98	0.46	0.46	0.48			
p1	0.21 0.00	0.46 0.00	285.82	295.88	314.68	0.49	0.49	0.51			
p2	0.23 0.00	0.50 0.00	290.04	303.53	307.74	0.51	0.51	0.54			
TILE_1_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14157.20	9255.78	3197.78	2359.25	1783.03	74708.55	74667.27	71843.46	61.03	1.00	
p1	14150.77	9261.74	3173.55	2368.88	1702.17	70959.40	70959.98	68253.94	59.96	1.00	
p2	14150.67	9248.49	3159.88	2342.10	1786.95	68177.44	68177.78	65415.98	59.16	1.00	
TILE_1_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.10	1.10	1.17	1.32	1.32	1.27	0.85	1.00	1.12
p1	1.01	1.01	1.09	1.10	1.11	1.26	1.26	1.21	0.83	1.00	1.09
p2	1.01	1.01	1.09	1.09	1.17	1.21	1.21	1.16	0.82	1.00	1.08
TILE_1_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.20 0.00	0.46 0.01	266.44	288.82	311.52	0.46	0.46	0.48			
p1	0.21 0.00	0.49 0.00	272.48	288.37	315.14	0.48	0.49	0.50			

p2	0.21 0.00	0.50 0.00	280.66	302.14	315.17	0.52	0.53	0.55			
TILE_2_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14138.87	9261.98	3184.82	2365.75	1799.30	82035.34	82036.16	82036.53	62.65	1.00	
p1	14159.39	9242.70	3168.15	2357.32	1700.72	78424.53	78425.05	78424.63	61.70	1.00	
p2	14153.81	9226.50	3171.05	2348.60	1791.03	76074.38	76074.83	76074.14	60.80	1.00	
TILE_2_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.10	1.10	1.18	1.45	1.45	1.45	0.87	1.00	1.16
p1	1.01	1.00	1.09	1.10	1.11	1.39	1.39	1.39	0.86	1.00	1.13
p2	1.01	1.00	1.09	1.09	1.17	1.35	1.35	1.35	0.84	1.00	1.13
TILE_2_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.29 0.00	1.02 0.36	267.28	285.63	303.91	0.42	0.42	0.42			
p1	0.28 0.00	1.12 0.44	277.19	289.71	318.74	0.44	0.44	0.44			
p2	0.31 0.00	1.01 0.35	276.94	293.43	306.22	0.45	0.45	0.45			
TILE_3_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14125.76	9258.10	3198.75	2374.75	1788.45	75455.71	72675.35	73225.54	63.22	1.00	
p1	14187.88	9241.68	3194.05	2361.00	1699.12	70878.32	70140.32	70139.64	62.32	1.00	
p2	14150.78	9328.29	3186.82	2359.97	1779.22	68216.30	68180.34	68179.56	61.49	1.00	
TILE_3_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.10	1.10	1.17	1.34	1.29	1.30	0.88	1.00	1.12
p1	1.01	1.00	1.10	1.10	1.11	1.25	1.24	1.24	0.87	1.00	1.10
p2	1.01	1.01	1.10	1.10	1.16	1.21	1.21	1.21	0.85	1.00	1.09
TILE_3_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.27 0.00	0.93 0.31	261.81	282.31	299.70	0.46	0.45	0.47			
p1	0.28 0.00	0.95 0.32	263.00	284.99	317.20	0.48	0.47	0.48			
p2	0.28 0.00	0.98 0.27	268.50	288.29	320.03	0.48	0.48	0.49			
TILE_4_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14166.78	9347.54	3175.07	2353.62	1801.03	83942.06	83940.61	83941.12	60.87	1.00	
p1	14157.40	9220.40	3167.93	2340.70	1713.90	80434.09	80433.60	80433.69	59.62	1.00	
p2	14159.21	9275.11	3151.38	2339.30	1712.25	78226.40	78226.18	78226.23	58.70	1.00	
TILE_4_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.02	1.09	1.09	1.18	1.49	1.49	1.49	0.85	1.00	1.17
p1	1.01	1.00	1.09	1.09	1.12	1.42	1.42	1.42	0.83	1.00	1.14
p2	1.01	1.01	1.09	1.09	1.12	1.38	1.38	1.38	0.82	1.00	1.13
TILE_4_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.27 0.00	0.93 0.28	271.04	289.30	295.34	0.40	0.40	0.41			
p1	0.28 0.00	0.92 0.24	277.95	300.44	303.42	0.42	0.42	0.42			
p2	0.29 0.00	0.96 0.26	283.04	304.48	306.23	0.44	0.43	0.44			

TILE_5_Scores	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	
p0	14150.99	9270.40	3188.07	2370.00	1809.40	74802.94	74600.49	74801.90	61.24	1.00	
p1	14151.22	9251.23	3193.40	2370.95	1730.67	73069.20	73069.36	73068.61	59.95	1.00	
p2	14157.20	9332.63	3166.75	2358.32	1801.25	71848.29	71848.42	71847.97	57.91	1.00	
TILE_5_Ratios	WVAuctionVM	WVAuctionK8S	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC	SocialNetwork	Standby	Geo.Mean
p0	1.01	1.01	1.10	1.10	1.18	1.32	1.32	1.32	0.85	1.00	1.12
p1	1.01	1.01	1.10	1.10	1.13	1.29	1.29	1.29	0.83	1.00	1.11
p2	1.01	1.01	1.09	1.10	1.18	1.27	1.27	1.27	0.80	1.00	1.10
TILE_5_QoS	WVAuctionVM%	WVAuctionK8S%	DVDStoreA	DVDStoreB	DVDStoreC	NoSQLBenchA	NoSQLBenchB	NoSQLBenchC			
p0	0.21 0.00	0.48 0.00	264.50	281.28	292.02	0.45	0.45	0.45			
p1	0.21 0.00	0.50 0.00	269.48	285.84	290.05	0.46	0.47	0.46			
p2	0.23 0.00	0.52 0.00	277.92	291.91	293.92	0.47	0.48	0.48			
p0_score:	6.82										
p1_score:	6.66										
p2_score:	6.60										
Infrastructure_Operations_Scores:					vMotion	SVMotion	XVMotion	Deploy			
Completed_Ops_PerHour					29.50	15.00	16.00	18.50			
Avg_Seconds_To_Complete					1.08	15.37	12.69	153.54			
Failures					0.00	0.00	0.00	0.00			
Ratio					1.00	1.15	1.23	1.28			
Number_Of_Threads					1	1	1	1			
Summary						Run_Is_Compliant	Median_Phase(p1)				
Unreviewed_VMmark4_Applications_Score						6.66					
Unreviewed_VMmark4_Infrastructure_Score						1.16					
Unreviewed_VMmark4_Score						5.56 @ 6 Tiles					

Configuration

Virtualization Software	
Hypervisor Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware ESXi 8.0 Update 3b, Build 24280767 / 09-17-2024
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)	2
--	---

Server Manufacturer and Model	Lenovo ThinkSystem SR665 V3
-------------------------------	-----------------------------

Processor Vendor and Model	AMD EPYC 9845
----------------------------	---------------

Processor Speed (GHz) / Turbo Boost Speed (GHz)	2.1 GHz / 3.7 GHz
---	-------------------

Total Sockets/Total Cores/Total Threads	2 Sockets / 320 Cores / 640 Threads
---	-------------------------------------

NUMA Nodes	2
------------	---

BIOS Version	5.30
--------------	------

Memory Size (in GB, Number of DIMMs)	Physical Memory (BIOS): 2304GB Physical Memory (ESXi): 2303.52GB Number of DIMMs: 24
--------------------------------------	--

Memory Type and Speed	Location	Size	Speed	Max Speed	Rank	Type	Detail
	DIMM1	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM2	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM3	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM4	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM5	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM6	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM7	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM8	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM9	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM10	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM11	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM12	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM13	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM14	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM15	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM16	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM17	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM18	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM19	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM20	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered
	DIMM21	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered

	<table border="1"> <tr> <td>DIMM22</td> <td>96 GB</td> <td>6000 MT/s</td> <td>6400 MT/s</td> <td>2</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>DIMM23</td> <td>96 GB</td> <td>6000 MT/s</td> <td>6400 MT/s</td> <td>2</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> <tr> <td>DIMM24</td> <td>96 GB</td> <td>6000 MT/s</td> <td>6400 MT/s</td> <td>2</td> <td>DDR5</td> <td>Synchronous, Registered</td> </tr> </table>	DIMM22	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	DIMM23	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered	DIMM24	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																											
DIMM22	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																																											
DIMM23	96 GB	6000 MT/s	6400 MT/s	2	DDR5	Synchronous, Registered																																																																																											
DIMM24	96 GB	6000 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	6																																																																																																
Virtual Host Bus Adapter Vendors and Models	<table border="1"> <thead> <tr> <th colspan="6">SUT1</th> </tr> <tr> <th>HBA</th> <th>Model</th> <th>Speed</th> <th>Drive</th> <th>Firmware</th> <th></th> </tr> </thead> <tbody> <tr> <td>vmhba8</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba9</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba12</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba13</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba10</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba11</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <th colspan="6">SUT2</th> </tr> <tr> <th>HBA</th> <th>Model</th> <th>Speed</th> <th>Drive</th> <th>Firmware</th> <th></th> </tr> <tr> <td>vmhba4</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba5</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba68</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba69</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba12</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> <tr> <td>vmhba13</td> <td>Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter</td> <td>32 Gbps</td> <td>lpfc</td> <td>14.4.317.10</td> <td></td> </tr> </tbody> </table>	SUT1						HBA	Model	Speed	Drive	Firmware		vmhba8	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba9	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba12	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba13	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba10	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba11	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		SUT2						HBA	Model	Speed	Drive	Firmware		vmhba4	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba5	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba68	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba69	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba12	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10		vmhba13	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10	
SUT1																																																																																																	
HBA	Model	Speed	Drive	Firmware																																																																																													
vmhba8	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba9	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba12	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba13	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba10	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba11	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
SUT2																																																																																																	
HBA	Model	Speed	Drive	Firmware																																																																																													
vmhba4	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba5	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba68	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba69	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba12	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
vmhba13	Emulex LPe36002 64Gb 2-Port PCIe Fibre Channel Adapter	32 Gbps	lpfc	14.4.317.10																																																																																													
Power Supply Quantity, Name/Part Number, Wattage, Firmware, and Type (Voltage, AC/DC)	2 x Delta 2400W CFF v4 Platinum AC PSUs PN: SP57B07051 FW: 7.52 Type: 230V, AC																																																																																																
Cooling Type (Air Cooling, Closed Loop Cooling, Direct Liquid Cooling, or Other)	Air Cooling																																																																																																
Other Hardware	None																																																																																																
Other Software	None																																																																																																
BIOS Availability Date (MM-DD-YYYY)	12-02-2024																																																																																																
Hardware Availability Date (MM-DD-YYYY)	02-13-2025																																																																																																
Software Availability Date (MM-DD-YYYY)	12-17-2024																																																																																																
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	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter
	vmnic1	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter
	vmnic2	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-Port OCP Ethernet Adapter
	vmnic3	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-Port OCP Ethernet Adapter
Number of Virtual Switches	4						
Virtual Switches, Ports, Port Groups, MTUs, Uplinks	Switch	Ports	Configured Ports	MTU	Uplinks		
	vSwitch0	9216	128	9000	vmnic0		
	vSwitch1	9216	128	9000	vmnic1		
	vSwitch2	9216	128	9000	vmnic2		
	vSwitch3	9216	128	9000	vmnic3		
	Switch	Port Group		VLAN ID	Uplinks		
	vSwitch0	Management Network, VM Network		0	vmnic0		
	vSwitch1	PortGrp2		0	vmnic1		
	vSwitch2	PortGrp1		0	vmnic2		
	vSwitch3	PortGrp3		0	vmnic3		
VMkernel Network Adapters, Port Groups, MTU, TCP/IP Stacks, and Services	Device	Port Group	MTU	TCP/IP Stack	Services		
	vmk0	Management Network	9000	Default	vMotion, Management		
Physical Switch Vendors, Models and Speeds	None						

Primary Storage

Storage Category	SCSI Target			
Datastores	Datastores	Type	Size	Storage Device
	Template	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	Deploy	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SVmotion	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	XVmotion	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SS_Tile0a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SS_Tile0b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SS_Tile0c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SS_Tile0d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SS_Tile1a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SS_Tile1b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
	SS_Tile1c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk

SS_Tile1d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile2a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile2b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile2c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile2d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile3d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile4a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile4b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile4c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile4d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile5a	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile5b	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile5c	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk
SS_Tile5d	VMFS-6	3.84 TB	LIO-ORG Fibre Channel Disk

Number of Storage Devices

29

Storage Device Names, Sizes, Types, Vendors, Models, and Revisions

Storage Device	Size	Type	Vendor	Model	Revision	Path Selection Policy	Path Selection Policy Config	# Working Paths
Local SATA Disk (Boot Device)	960 GB	Direct-Access	Micron	MTFDDAK960TDT-1A	N/A	FIXED	preferred=none	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	Template	4.0	VMW_PSP_MRU	Current Path=vmhba11:C0:T1:L1 (SUT1) Current Path=vmhba13:C0:T1:L1 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	XVmotion	4.0	VMW_PSP_MRU	Current Path=vmhba11:C0:T0:L1 (SUT1) Current Path=vmhba13:C0:T0:L1 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	Deploy	4.0	VMW_PSP_MRU	Current Path=vmhba11:C0:T0:L0 (SUT1) Current Path=vmhba13:C0:T0:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SVmotion	4.0	VMW_PSP_MRU	Current Path=vmhba11:C0:T1:L0 (SUT1) Current Path=vmhba13:C0:T1:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0a	4.0	VMW_PSP_MRU	Current Path=vmhba9:C0:T1:L0 (SUT1) Current Path=vmhba5:C0:T2:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0b	4.0	VMW_PSP_MRU	Current Path=vmhba8:C0:T1:L0 (SUT1) Current Path=vmhba4:C0:T0:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0c	4.0	VMW_PSP_MRU	Current Path=vmhba12:C0:T4:L0 (SUT1) Current Path=vmhba68:C0:T1:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile0d	4.0	VMW_PSP_MRU	Current Path=vmhba13:C0:T0:L0 (SUT1) Current Path=vmhba69:C0:T4:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1a	4.0	VMW_PSP_MRU	Current Path=vmhba8:C0:T0:L0 (SUT1) Current Path=vmhba4:C0:T2:L0 (SUT2)	1

LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1b	4.0	VMW_PSP_MRU	Current Path=vmhba12:C0:T1:L0 (SUT1) Current Path=vmhba68:C0:T0:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1c	4.0	VMW_PSP_MRU	Current Path=vmhba13:C0:T1:L0 (SUT1) Current Path=vmhba69:C0:T0:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile1d	4.0	VMW_PSP_MRU	Current Path=vmhba10:C0:T3:L0 (SUT1) Current Path=vmhb12:C0:T1:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2a	4.0	VMW_PSP_MRU	Current Path=vmhba12:C0:T2:L0 (SUT1) Current Path=vmhba68:C0:T2:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2b	4.0	VMW_PSP_MRU	Current Path=vmhba13:C0:T2:L0 (SUT1) Current Path=vmhba69:C0:T2:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2c	4.0	VMW_PSP_MRU	Current Path=vmhba10:C0:T0:L0 (SUT1) Current Path=vmhba12:C0:T3:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile2d	4.0	VMW_PSP_MRU	Current Path=vmhba9:C0:T6:L0 (SUT1) Current Path=vmhba5:C0:T1:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3a	4.0	VMW_PSP_MRU	Current Path=vmhba13:C0:T3:L0 (SUT1) Current Path=vmhba69:C0:T1:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3b	4.0	VMW_PSP_MRU	Current Path=vmhba10:C0:T2:L0 (SUT1) Current Path=vmhba12:C0:T0:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3c	4.0	VMW_PSP_MRU	Current Path=vmhba9:C0:T2:L0 (SUT1) Current Path=vmhba5:C0:T3:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile3d	4.0	VMW_PSP_MRU	Current Path=vmhba8:C0:T3:L0 (SUT1) Current Path=vmhba4:C0:T4:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile4a	4.0	VMW_PSP_MRU	Current Path=vmhba10:C0:T1:L0 (SUT1) Current Path=vmhba12:C0:T2:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile4b	4.0	VMW_PSP_MRU	Current Path=vmhba9:C0:T3:L0 (SUT1) Current Path=vmhba5:C0:T4:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile4c	4.0	VMW_PSP_MRU	Current Path=vmhba8:C0:T4:L0 (SUT1) Current Path=vmhba4:C0:T1:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile4d	4.0	VMW_PSP_MRU	Current Path=vmhba12:C0:T0:L0 (SUT1) Current Path=vmhba68:C0:T3:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile5a	4.0	VMW_PSP_MRU	Current Path=vmhba9:C0:T5:L0 (SUT1) Current Path=vmhba5:C0:T5:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile5b	4.0	VMW_PSP_MRU	Current Path=vmhba8:C0:T2:L2 (SUT1) Current Path=vmhba4:C0:T3:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile5c	4.0	VMW_PSP_MRU	Current Path=vmhba12:C0:T3:L0 (SUT1) Current Path=vmhba68:C0:T4:L0 (SUT2)	1
LIO-ORG Fibre Channel Disk	3.84 TB	Direct-Access	LIO-ORG	SS_Tile5d	4.0	VMW_PSP_MRU	Current Path=vmhba13:C0:T4:L0 (SUT1) Current Path=vmhba69:C0:T3:L0 (SUT2)	1

How Datastores Map to Storage Devices

See Storage Notes Section

VMware vSAN Configuration (if used)

None

RAID Configuration (if used)

None

Server Management

VMware vCenter Server Number of vCPUs	8
VMware vCenter Server Virtual Memory (in GB)	30

Clients

Total Client VMs (including Prime Client)	7
Number of Client Hosts (all subsequent fields in this section per Client Host)	6

System Model(s)	<ul style="list-style-type: none"> • Client Host 1: Lenovo ThinkSystem SR665 V3 • Client Host 2: Lenovo ThinkSystem SR665 V3 • Client Host 3: Lenovo ThinkSystem SR860 V3 • Client Host 4: Lenovo ThinkSystem SR860 V3 • Client Host 5: Lenovo ThinkSystem SR650 V3 • Client Host 6: Lenovo ThinkSystem SR655
-----------------	---

Processor Vendor(s) and Model(s)	<ul style="list-style-type: none"> • Client Host 1: AMD EPYC 9654 • Client Host 2: AMD EPYC 9654 • Client Host 3: Intel Xeon Platinum 8490H • Client Host 4: Intel Xeon Platinum 8490H • Client Host 5: Intel Xeon Platinum 8592+ • Client Host 6: AMD EPYC 7713
----------------------------------	--

Processor Speed(s) (GHz)	<ul style="list-style-type: none"> • Client Host 1: 2.4 GHz • Client Host 2: 2.4 GHz • Client Host 3: 1.9 GHz • Client Host 4: 1.9 GHz • Client Host 5: 1.9 GHz • Client Host 6: 2.0 GHz
--------------------------	--

Total Sockets/Total Cores/Total Threads	Client Host	Sockets	Cores	Threads
	Client Host 1	2	192	384
	Client Host 2	2	192	384
	Client Host 3	4	240	480
	Client Host 4	4	240	480
	Client Host 5	2	128	256
	Client Host 6	1	64	128
	Total	15	1056	2112

NUMA Nodes	<ul style="list-style-type: none"> • Client Host 1: 8 • Client Host 2: 8 • Client Host 3: 16 • Client Host 4: 16 • Client Host 5: 4
------------	--

- Client Host 6: 1

Memory Size (in GB) per Client Host

Client Host	BIOS	ESXi
Client Host 1	1536 GB	1535.72 GB
Client Host 2	1536 GB	1535.72 GB
Client Host 3	8192 GB	8191.73 GB
Client Host 4	8192 GB	8191.73 GB
Client Host 5	2304 GB	2303.58 GB
Client Host 6	256 GB	219.93 GB

Virtual Network Controllers, Speeds, MTU, Firmware, Drivers, Vendors, and Models

Client Host	Device	Speed	Duplex	MTU	Firmware	Driver	Description
Client Host 1	vmnic0	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter (1 port used)
Client Host 2	vmnic2	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter (1 port used)
Client Host 3	vmnic2	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter (1 port used)
Client Host 4	vmnic2	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter (1 port used)
Client Host 5	vmnic4	100 Gbps	Full	9000	230.0.156.0 /pkg 230.1.116.0	bnxnet	Broadcom 57508 100GbE QSFP56 2-port PCIe 4 Ethernet Adapter (1 port used)
Client Host 6	vmnic0	25 Gbps	Full	9000	26.36.1010	nmlx5_core	Mellanox Technologies MT2894 Family [ConnectX-6 Lx]

Virtual Switches, Ports, Port Groups, MTUs, and Uplinks

Client Host	Switch	Ports	Configured Ports	MTU	Uplinks
Client Host 1	vSwitch0	9216	128	9000	vmnic0
Client Host 2	vSwitch0	9216	128	9000	vmnic2
Client Host 3	vSwitch0	9216	128	9000	vmnic2
Client Host 4	vSwitch0	9216	128	9000	vmnic2
Client Host 5	vSwitch0	9216	128	9000	vmnic4
Client Host 6	vSwitch0	9216	128	9000	vmnic0

Client Host	Switch	Port Group	VLAN ID	Uplinks
Client Host 1	vSwitch0	Management Network	0	vmnic0
	vSwitch0	Primeclient	0	vmnic0
	vSwitch0	VM Network	0	vmnic0
Client Host 2	vSwitch0	Management Network	0	vmnic2
	vSwitch0	Primeclient	0	vmnic2
	vSwitch0	VM Network	0	vmnic2
Client Host 3	vSwitch0	Management Network	0	vmnic2
	vSwitch0	Primeclient	0	vmnic2
	vSwitch0	VM Network	0	vmnic2
Client Host 4	vSwitch0	Management Network	0	vmnic2
	vSwitch0	Primeclient	0	vmnic2
	vSwitch0	VM Network	0	vmnic2

	<table border="1"> <tr> <td rowspan="3">Client Host 5</td> <td>vSwitch0</td> <td>Management Network</td> <td>0</td> <td>vmnic4</td> </tr> <tr> <td>vSwitch0</td> <td>Primeclient</td> <td>0</td> <td>vmnic4</td> </tr> <tr> <td>vSwitch0</td> <td>VM Network</td> <td>0</td> <td>vmnic4</td> </tr> <tr> <td rowspan="3">Client Host 6</td> <td>vSwitch0</td> <td>Management Network</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td>vSwitch0</td> <td>Primeclient</td> <td>0</td> <td>vmnic0</td> </tr> <tr> <td>vSwitch0</td> <td>VM Network</td> <td>0</td> <td>vmnic0</td> </tr> </table>	Client Host 5	vSwitch0	Management Network	0	vmnic4	vSwitch0	Primeclient	0	vmnic4	vSwitch0	VM Network	0	vmnic4	Client Host 6	vSwitch0	Management Network	0	vmnic0	vSwitch0	Primeclient	0	vmnic0	vSwitch0	VM Network	0	vmnic0																
Client Host 5	vSwitch0		Management Network	0	vmnic4																																						
	vSwitch0		Primeclient	0	vmnic4																																						
	vSwitch0	VM Network	0	vmnic4																																							
Client Host 6	vSwitch0	Management Network	0	vmnic0																																							
	vSwitch0	Primeclient	0	vmnic0																																							
	vSwitch0	VM Network	0	vmnic0																																							
VMkernel Network Adapters, Port Groups, MTUs, TCP/IP Stacks, and Services	<table border="1"> <thead> <tr> <th>Client Host</th> <th>Device</th> <th>Port Group/DVPort</th> <th>MTU</th> <th>TCP/IP Stack</th> <th>Services</th> </tr> </thead> <tbody> <tr> <td>Client Host 1</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>vMotion, Management</td> </tr> <tr> <td>Client Host 2</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>vMotion, Management</td> </tr> <tr> <td>Client Host 3</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>vMotion, Management</td> </tr> <tr> <td>Client Host 4</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>vMotion, Management</td> </tr> <tr> <td>Client Host 5</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>vMotion, Management</td> </tr> <tr> <td>Client Host 6</td> <td>vmk0</td> <td>Management Network</td> <td>9000</td> <td>Default</td> <td>vMotion, Management</td> </tr> </tbody> </table>	Client Host	Device	Port Group/DVPort	MTU	TCP/IP Stack	Services	Client Host 1	vmk0	Management Network	9000	Default	vMotion, Management	Client Host 2	vmk0	Management Network	9000	Default	vMotion, Management	Client Host 3	vmk0	Management Network	9000	Default	vMotion, Management	Client Host 4	vmk0	Management Network	9000	Default	vMotion, Management	Client Host 5	vmk0	Management Network	9000	Default	vMotion, Management	Client Host 6	vmk0	Management Network	9000	Default	vMotion, Management
Client Host	Device	Port Group/DVPort	MTU	TCP/IP Stack	Services																																						
Client Host 1	vmk0	Management Network	9000	Default	vMotion, Management																																						
Client Host 2	vmk0	Management Network	9000	Default	vMotion, Management																																						
Client Host 3	vmk0	Management Network	9000	Default	vMotion, Management																																						
Client Host 4	vmk0	Management Network	9000	Default	vMotion, Management																																						
Client Host 5	vmk0	Management Network	9000	Default	vMotion, Management																																						
Client Host 6	vmk0	Management Network	9000	Default	vMotion, Management																																						
Client Storage Notes	See Client Notes Section																																										
Other Hardware	None																																										
Other Software	VMware ESXi 8.0 Update 3b, Build 24280767																																										

Notes for Workload

Template deployed with disk type: Thick Provision Lazy Zeroed

Virtualization Software Notes

- vSphere DRS Enabled
- vSphere DRS Automation Level set to Fully Automated
- vSphere DRS Migration Threshold Level set to 2
- Logging disabled for all VMs (default: Enabled)
- CD/DVD device was removed from all VMs (default: Present)
- VM scoreboard disabled for all VMs (default: Enabled)
- Primeclient's third virtual disk configured to be 750GB (default no third virtual disk)
- Client VMs vCPU set to 96 (default 64)
- Logical CPU configuration changed 48 core per socket for all Client VMs (default 1)
- Logical CPU configuration changed for all multi-CPU VMs (except Client, Primeclient, Template, AuctionK VMs) to 1 socket with multiple cores (default: Single core per socket)
- All Standby VMs had CPU and Memory shares set to low (default: normal)
- All DS35DB, NoSQLBench, SocialNetwork VMs had CPU shares set to high (default normal)
- All DS35DB VMs Memory shares set to high (default: normal)
- All memory reserved for all DS35DB VMs (default: non-reserved)
- sched.mem.pin set to TRUE for all DS35DB (default: FALSE)
- sched.mem.lpage.enable1GPage set to TRUE for all DS35DB VMs (default: FALSE)

SUT Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Default
Cpu.CreditAgePeriod	1000	1000	3000

Cpu.HTWholeCoreThreshold	0	0	800
DataMover.HardwareAcceleratedInit	0	0	1
DataMover.HardwareAcceleratedMove	0	0	1
Disk.IdleCredit	64	64	32
Disk.ReqCallThreshold	1	1	8
Mem.CtlMaxPercent	0	0	65
Mem.ShareScanGHz	0	0	4
Numa.LargeInterleave	0	0	1
Numa.LTermFairnessInterval	0	0	5
Numa.MigThreshold	0	0	2
Numa.MonMigEnable	0	0	1
Numa.PageMigEnable	0	0	1
Numa.PreferHT	1	1	0
Numa.RebalancePeriod	60000	60000	2000
Numa.SwapLoadEnable	0	0	1
Numa.SwapLocalityEnable	0	0	1
Power.CpuPolicy	High Performance	High Performance	Balanced
UserVars.HostClientCEIPOptIn	2	2	0
UserVars.HostClientSessionTimeout	0	0	900
UserVars.SuppressShellWarning	1	1	0
UserVars.SuppressShellWarning	1	1	0
VMkernel.Boot.hyperthreadingMitigation	true	true	false

SUT Host ESXi Modules Options:

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

Server Notes

Server BIOS Settings

- Operating Mode set to Maximum Performance, then Custom Mode (default Maximum Efficiency)
- DRAM Scrub Time set to Disabled (default 24 hours)
- Memory Power Down Enable set to Disabled (default Enabled)
- Global C-State Control set to Disabled (default Enabled)
- DF C-states set to Disabled (default Enabled)
- DF P-states set to P0 (default Auto)
- PCIe Power Brake Disabled (default Proactive)
- Fan speed set to maximum (default normal)

Networking Notes

vSwitch Configuration

- All SUT and Client hosts are configured with Standard vSwitches
- The MTU of the all vSwitches, vmk0 on all SUT and Client hosts was set to 9000 (default 1500)

SUT Hosts:

- vSwitch0 configuration:
 - Uplink: vmnic0 (100Gbps)
 - Usage:
 - vmk0 for vMotion, Management
 - "VM Network" port group for all AuctionK VMs
- vSwitch1 configuration:
 - Uplink: vmnic1 (100Gbps)
 - Usage: "PortGrp2" port group for all AuctionAppA, AuctionAppB, AuctionAppC, AuctionWebA, DS35DB, DS35WebA, DS35WebB, DS35WebC, NoSQLBench, Standby
- vSwitch2 configuration:
 - Uplink: vmnic2 (100Gbps)
 - Usage: "PortGrp1" port group for all AuctionWebDNosql, AuctionWebEDB, AuctionWebF
- vSwitch3 configuration:
 - Uplink: vmnic3 (100Gbps)
 - Usage: "PortGrp3" port group for all AuctionWebB, AuctionWebC, SocialNetwork

Client Hosts:

- vSwitch0 configuration:
 - Uplink: vmnic0 (100Gbps) on Client Host 1
 - Uplink: vmnic2 (100Gbps) on Client Hosts 2, 3, 4
 - Uplink: vmnic4 (100Gbps) on Client Host 5
 - Uplink: vmnic0 (25Gbps) on Client Host 6
 - Usage:
 - vmk0 for Management and vMotion
 - "Primeclient" port group for Primeclient VM
 - "VM Network" port group for Client VMs

Storage Notes

- All SUT hosts OS installed on 1 x Lenovo ThinkSystem 2.5" 480GB Read Intensive SATA 6Gb HS SSD

Primary and Secondary Storage: Fibre Channel Target via SCSI Target Server (LIO)

- 6 x Lenovo ThinkSystem SR665, and 1 x Lenovo ThinkSystem SR655 configured as Fibre Channel Targets

- Hardware Details

Hardware	Processor	Memory	FC HBA	OS Storage System (not exported as FC Target LUN)	Workload Storage	Tile
Lenovo ThinkSystem SR665	2 x AMD EPYC 7773X 64-Core 2.2 GHz	2TB RAM (32 x 64GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controller	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	0
Lenovo ThinkSystem	2 x AMD EPYC 7552 48-Core 2.2 GHz	768GB RAM (12 x 64GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot	1

SR665			controller	SSD	Swap SSD	
Lenovo ThinkSystem SR665	2 x AMD EPYC 7542 32-Core 2.9 GHz	1TB RAM (16 x 64GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2770 1-port 32GB HBA, and 1 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controllers	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	2
Lenovo ThinkSystem SR665	2 x AMD EPYC 7763 64-Core 2.45 GHz	512GB RAM (16 x 32GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controller	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	3
Lenovo ThinkSystem SR665	2 x AMD EPYC 7763 64-Core 2.45 GHz	512GB RAM (16 x 32GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controller	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	4
Lenovo ThinkSystem SR665	2 x AMD EPYC 7763 64-Core 2.45 GHz	2TB RAM (32 x 64GB DDR4-3200MHz RDIMM)	2 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controller	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	5
Lenovo ThinkSystem SR655	1 x AMD EPYC 7502 32-Core 2.5 GHz	1TB RAM (16 x 64GB DDR4-3200MHz RDIMM)	1 x Lenovo ThinkSystem QLogic QLE2772 2-port 32GB HBA used as FC target controller	1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	4 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	Infrastructure Operations

- 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 for Lenovo ThinkSystem SR665 FC Target for Tiles
 - Unless otherwise specified, an entire disk device was configured as a single LUN
 - Unless otherwise specified, all storage target servers for tiles are configured identically

LUN ID	LUN Size	Storage Drive	Workload
a	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionKA, AuctionKB, AuctionKC, AuctionKD, ocialNetwork
b	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionAppA, AuctionAppB, AuctionAppC, AuctionWebEDB, AuctionWebF, DS35WebB, NoSQLBenchC
c	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionWebA, AuctionWebC, AuctionWebDNosql, NoSQLBenchB, Standby
d	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	AuctionWebB, DS35DB, DS35WebA, DS35WebC, NoSQLBenchA

- LUN Details for Lenovo ThinkSystem SR655 FC Target for Infrastructure Operations

LUN ID	LUN Size	Storage Drive	Workload
a	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	XVMotion Target
b	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	Deploy Target
c	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	SVMotion Target
d	3.49TB	1 x Lenovo ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	Template

Server Management Notes

VMware vCenter Server 8.0 Update 3d, Build 24322831 (standard), 10-21-2024 was hosted as a VM on the Client Cluster.

Operating System Notes

Software Notes

None

Client Notes

- vSphere DRS Disabled

Client Host 1, 2 BIOS Settings:

- Operating Mode set to Maximum Performance, then Custom Mode (default Maximum Efficiency)
- Fan speed set to maximum (default normal)

Client Host 3, 4 BIOS Settings:

- Operating Mode set to Maximum Performance, then Custom Mode (default Efficiency - Favor Performance)
- Adjacent Cache Prefetcher set to Disabled (default Enabled)
- DCU Streamer Prefetcher set to Disabled (default Enabled)
- DCU IP Prefetcher set to Disabled (default Enabled)
- OSB Disabled (default Enabled)
- OSB Remote Rd Disabled (default Enabled)
- OSB Local Rd Disabled (default Enabled)
- OSB Local RdCur Disabled (default Enabled)
- Gate OSB IODC Allocation Disabled (default Enabled)
- Stale AtoS set to Enable (default Auto)
- Monitor/MWAIT Enabled (default Disabled)
- LLC dead line allocation set to Disable (default Enable)
- PCIe Power Brake Disabled (default Proactive)
- Uncore Frequency Scaling Disabled (default Enabled)
- Memory Patrol Scrub set to Disabled (default Enabled)
- Fan speed set to maximum (default normal)
- SNC set to 4 (default Disabled)

Client Host 5 BIOS Settings:

- Operating Mode set to Maximum Performance, then Custom Mode (default Efficiency - Favor Performance)
- Adjacent Cache Prefetcher set to Disabled (default Enabled)
- DCU Streamer Prefetcher set to Disabled (default Enabled)
- DCU IP Prefetcher set to Disabled (default Enabled)
- OSB Disabled (default Enabled)
- OSB Remote Rd Disabled (default Enabled)
- OSB Local Rd Disabled (default Enabled)
- OSB Local RdCur Disabled (default Enabled)
- Gate OSB IODC Allocation Disabled (default Enabled)
- Stale AtoS set to Enable (default Auto)
- Monitor/MWAIT Enabled (default Disabled)
- LLC dead line allocation set to Disable (default Enable)
- PCIe Power Brake Disabled (default Proactive)
- Uncore Frequency Scaling Disabled (default Enabled)
- Memory Patrol Scrub set to Disabled (default Enabled)
- Fan speed set to maximum (default normal)
- SNC set to SNC2 (default Disabled)

Client Host 6 BIOS Settings:

- Default Settings

Client Host ESXi Advanced Settings:

Advanced Setting	Host 1	Host 2	Host 3	Host 4	Host 5	Host 6	Default
Cpu.CreditAgePeriod	1000	1000	1000	1000	1000	3000	3000
Cpu.HTWholeCoreThreshold	0	0	0	0	0	800	800
DataMover.HardwareAcceleratedInit	0	0	0	0	0	1	1
DataMover.HardwareAcceleratedMove	0	0	0	0	0	1	1
Disk.IdleCredit	64	64	64	64	64	32	32
Disk.ReqCallThreshold	1	1	1	1	1	8	8
Mem.CtlMaxPercent	0	0	0	0	0	65	65
Mem.ShareScanGHz	0	0	0	0	0	4	4
Numa.LTermFairnessInterval	0	0	0	0	0	5	5
Numa.LargeInterleave	0	0	0	0	0	1	1
Numa.MigThreshold	0	0	0	0	0	2	2
Numa.MonMigEnable	0	0	0	0	0	1	1
Numa.PageMigEnable	0	0	0	0	0	1	1
Numa.PreferHT	1	1	1	1	1	0	0
Numa.RebalancePeriod	60000	60000	60000	60000	60000	2000	2000
Numa.SwapLoadEnable	0	0	0	0	0	1	1
Numa.SwapLocalityEnable	0	0	0	0	0	1	1
Power.CpuPolicy	High Performance	High Performance	High Performance	High Performance	High Performance	Balanced	Balanced
UserVars.HostClientCEIPOptIn	2	2	2	2	2	2	0
UserVars.HostClientSessionTimeout	0	0	0	0	0	0	900
UserVars.SuppressShellWarning	1	1	1	1	1	1	0
VMkernel.Boot.hyperthreadingMitigation	true	true	true	true	true	false	false

Client Host ESXi Modules 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: VMware-ESXi-8.0.3b-24280767-LNV-S03-20240919.iso, available at https://vmware.lenovo.com/content/2024_12/Lenovo_Custom_ISO/8.0u3/s/VMware-ESXi-8.0.3b-24280767-LNV-S03-20240919.iso

Client Storage:

- Client Hosts 1, 2: OS installed on 1 x Lenovo ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD
- Client Hosts 3, 4: OS installed on 1 x Lenovo ThinkSystem 2.5" U.2 P5520 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD
- Client Host 5: OS installed on 1 x ThinkSystem RAID 540-8i PCIe Gen4 12Gb Adapter; 1 x Lenovo ThinkSystem 2.5" 480GB Read Intensive SATA 6Gb HS SSD
- Client Host 6: OS installed on 1 x ThinkSystem RAID 940-16i 8GB PCIe Gen4 12Gb Adapter; 1 x Lenovo ThinkSystem 2.5" 480GB Read Intensive SATA

Client Host VMs:

- Client Host 1: Client0, 5
- Client Host 2: Client1, Primeclient
- Client Host 3: Client3
- Client Host 4: Client4
- Client Host 5: Client2
- Client Host 6: VCSAnew

Other Notes

None

VMmark4.properties Settings

- TileDelay = 2 (default: 60)
- ReporterSkipNonCompliant = 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	SS_Tile0b	PortGrp2	17	12325
AuctionAppA1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
AuctionAppA2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
AuctionAppA3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325
AuctionAppA4	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile4b	PortGrp2	17	12325
AuctionAppA5	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile5b	PortGrp2	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	SS_Tile0b	PortGrp2	17	12325
AuctionAppB1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
AuctionAppB2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
AuctionAppB3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325
AuctionAppB4	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile4b	PortGrp2	17	12325
AuctionAppB5	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile5b	PortGrp2	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	SS_Tile0b	PortGrp2	17	12325
AuctionAppC1	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile1b	PortGrp2	17	12325
AuctionAppC2	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile2b	PortGrp2	17	12325
AuctionAppC3	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile3b	PortGrp2	17	12325
AuctionAppC4	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile4b	PortGrp2	17	12325
AuctionAppC5	4	4	8192	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile5b	PortGrp2	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	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Tile0a	VM Network	17	12325

Standby1	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile1c	PortGrp2	17	12325
Standby2	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile2c	PortGrp2	17	12325
Standby3	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile3c	PortGrp2	17	12325
Standby4	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile4c	PortGrp2	17	12325
Standby5	1	1	2048	TRUE	FALSE	Removed	0	Unlimited	low	0	Unlimited	low	FALSE	FALSE	normal	SS_Tile5c	PortGrp2	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
VMmark-4.0.2-209	4	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	SS_Template	VM Network	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	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds2_DE4000	VM Network	17	12325
Client1	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds1_DE4000	VM Network	17	12325
Client2	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds2_DE4000	VM Network	17	12325
Client3	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds1_DE4000	VM Network	17	12325
Client4	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds2_DE4000	VM Network	17	12325
Client5	96	48	98304	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VMmark3_Client_ds1_DE4000	VM Network	17	12325
Primeclient	4	1	32768	TRUE	FALSE	Removed	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	PrimeclientDS	Primeclient, Primeclient	17	12325
VCSAnew	8	1	30720	FALSE	TRUE	Present	0	Unlimited	normal	0	Unlimited	normal	FALSE	FALSE	normal	VCSAnew	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) 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.