## VMware® VMmark™ V1.1.1 Results

**Vendor and Hardware Platform:** Cisco UCS C460 M1  
**Virtualization Platform:** VMware ESXi 4.0 Build 240223

**VMmark V1.1.1 Score = 73.82 @ 50 Tiles**

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| p0_score: | 72.68 |
| p1_score: | 73.82 |
| p2_score: | 74.07 |

Unreviewed_VMmark_Score: 73.82
### Configuration

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<tr>
<td><strong>Processor Vendor and Model</strong></td>
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<td><strong>Secondary Cache</strong></td>
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<td><strong>Memory Size (in GB, Number of DIMMs)</strong></td>
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<td><strong>Number of Network Controllers</strong></td>
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### Virtualization Software

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### Storage

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<td>Array Vendors, Models, and Firmware Versions</td>
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<td>Fibre Channel Switch Vendors and Models</td>
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<td>Total Number of Storage Groups Used</td>
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<td>Number LUNs Used</td>
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<td>LUN Size and Number of Disks Per LUN</td>
<td>10 sets of 5 LUNs at 38GB (Fileserver + Mailserver), each set spread over 8x73GB SSDs + 1 LUN at 150GB (Misc) over 4x450GB 15K disks</td>
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<td>RAID Type</td>
<td>RAID 0 for VMs, RAID 1 for VMware ESXi 4.0 U2 O/S</td>
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<td>Number of Members per RAID Set</td>
<td>10 RAID0 RAID sets each over 8x73GB SSDs + 1 LUN over 2x64GB 15K internal disks</td>
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<td>Disk Vendors, Models, and Speeds</td>
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### Clients

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<tr>
<td>Processor Vendor(s) and Model(s)</td>
<td>client0-17: Intel Xeon E5430</td>
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<td>client21: Intel Xeon E5520</td>
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| Processor Speed(s) (GHz) | client0-17: 2.66GHz  
client18: 2.53GHz  
client19: 2.53GHz  
client20: 2.93GHz  
client21: 2.26GHz  
client22: 2.3GHz  
client23: 2.53GHz  
client24: 2.26GHz  
client25: 2.93GHz  
client26: 2.26GHz  
client27: 2.53GHz  
client28-48: 2.26GHz  
client49: 2.66GHz |
|-------------------------|--------------------------------------------------|
| Total Sockets/Total Cores/Total Threads | client0-17: 2 Sockets / 8 Cores / 8 Threads  
client18-49: 2 Sockets / 8 Cores / 16 Threads |
| Memory per Client | client0-17: 16GB  
client18-49: 24GB |
| Network Controller Vendors and Models | client0-17: Broadcom BMC5708C (1Gb/s)  
client18-24: Intel 82576 (1Gb/s)  
client19-24: Intel 82598EB (10Gb/s) |
| Other Hardware | None |
| Other Software | None |

**Notes for Workload**

**Server BIOS Settings**
- Intel Turbo Boost enabled (up to 2.93 GHz) (default enabled)

**QLogic HBA BIOS settings**
- Execution throttle set to 128 (default 16)

**vSwitch Configuration**
- 7 vSwitches defined, each attached to a physical NIC (7 physical NICs were used, 3 were unused).
- All vSwitches were configured with 120 ports (default 56).
• Each vSwitch was configured for 7 tiles in round-robin fashion
  ◦ Tile0, 1, 8, 16, 24, 32, 40, 48 and Console were configured on vSwitch0/vmnic2
  ◦ Tile2, 9, 10, 18, 26, 34, 42 were configured on vSwitch2/vmnic4
  ◦ Tile3, 11, 17, 19, 27, 35, 43 were configured on vSwitch3/vmnic5
  ◦ Tile4, 12, 20, 25, 28, 36, 44 were configured on vSwitch4/vmnic6
  ◦ Tile5, 13, 21, 29, 33, 37, 45 were configured on vSwitch5/vmnic8
  ◦ Tile6, 14, 22, 30, 38, 41, 46 were configured on vSwitch6/vmnic9
  ◦ Tile7, 15, 23, 31, 39, 47, 49 were configured on vSwitch1/vmnic3
• vmnics 0, 1, & 7 were unused

Storage Configuration
• 10 sets of 5 LUNs at 38GB were created, with each set spread over 8x73GB SSDs. Each LUN held a single tile's Fileserver & Mailserver VMs.
• 10 sets of 5 LUNs at 15GB + 1 LUN at 150GB (Misc) were created, with each set spread over 4x450GB 15K disks. The 15GB LUNS each held a single tile's Database VM. Each 150GB LUN held five tile's Webserver, Standby and Javaserver VM's.
• 1 LUN at 64GB was created over (2) RAID1 15K disks on the embedded RAID controller for the ESXi hypervisor O/S.

Virtualization Software Notes
• Virtual hardware upgraded from V4 to V7
• Hardware support for Virtual MMU & CPU enabled, default automatic.
• Ethernet adapter type set to vmxnet3 for all VMs
• Logging was disabled for all VMs
• Storage multipathing was set to "Fixed" (default MRU)
• IDE & Floppy removed for all VMs (default enabled)
• BufferCache.MaxRankDirty=85 (default 15)
• Disk.SchedMaxReqOutstanding = 120 (default 32)
• IRQ.RoutingPolicy = 0 (default 2)
• Net.MaxNetIFRxQueueLen=300 (default 100)
• Net.MaxNetIFTxQueueLen=1000 (default 500)
• Net.TcpipHeapMax=120 (default 64)
• Net.vmxnet ThroughputWeight=255 (default 0)
• Misc.HostIDStatsVMcount=512 (default 0)
• CPU.Quantum=75 (default 50)
• CPU.HaltingIdleMsecPenalty was set to 0 (default is 100)
  /vmkernel/module/qla2xxx.o/options = "ql2xenablemsi=1 ql2xmaxqdepth=128" set in /etc/vmware/esx.conf (default 0)
  /vmkernel/module/bnx2.o/options = "disable_msi=0" set in /etc/vmware/esx.conf (default 1)
  /vmkernel/module/tcpip2v6/enabled = "false" set in /etc/vmware/esx.conf (default true)
• Used the VMmark AutoPart utility to expand all mailserver data partitions

Operating System Notes
• Microsoft Windows Server 2003 virtual machines were updated to Service Pack 2
• Microsoft Windows Server 2003 virtual machines updated with KB955839
• Fileserver and Webserver VMs were updated to SLES 10 SP2

Software Notes
None.
Client Notes

- Microsoft Windows Server 2003 client machines were updated to Service Pack 2
- TCP TOE chimney was disabled on all clients (default enabled)
- Microsoft Windows Server 2003 clients updated with KB943545 & KB955839
- Clients19-24 were Cisco UCS B200 M1 blade servers connected to the UCS 6120 fabric at 10Gb/s, which was in turn connected to the Cisco Nexus 5010.
- Clients0-18 were connected to one Nexus 2148T at 1Gb/s, which was in turn connected to the Nexus 5010.
- Clients25-48 were connected to the other Nexus 2148T at 1Gb/s, which was in turn connected to the Nexus 5010.
- The SUT was connected to the Nexus 5010 at 1Gb/s

Other Notes

- The TILEDELAY and DELAYTIME values were modified in the VMMARK.CONFIG
  - MailServer/DELAYTIME="0"
  - JavaServer/DELAYTIME="25"
  - Standby/DELAYTIME="35"
  - WebServer/DELAYTIME="50"
  - Database/DELAYTIME="75"
  - Fileserver/DELAYTIME="100"
  - TILEDELAY=120

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