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vCloudPoint Zero Client Deployment Planning

This guide provides a detailed overview of how to plan and size the underlying infrastructure needed to support vCloudPoint zero client deployments. Performance results are highly dependent upon the individual host hardware, memory, storage, applications being used, OS and network conditions. Host requirements will vary, please test your multi-user environment before deployment.

1. Software Requirements

1.1 vMatrix Server Manager per shared host

The latest version of vMatrix Server Manager is obtainable at www.vcloudpoint.com/support/downloads/.

1.2 Windows Operating System mounted on each shared host

Supported Operation Systems by vMatrix Server Manager:

- Microsoft Windows XP SP3 Pro 32-bit (excluding Home Basic)
- Microsoft Windows 7 32-bit & 64-bit (excluding Home Basic)
- Microsoft Windows 8 32-bit & 64-bit (excluding Starter)
- Microsoft Windows 8.1 32-bit & 64-bit (excluding Starter)
- Microsoft Windows 10 32-bit & 64-bit (excluding Starter and Insider)
- Microsoft Windows Server 2003 32 bits
- Microsoft Windows Server 2008R2
- Microsoft Windows Server 2012
- Microsoft Windows Server 2012R2
- Microsoft Windows Multipoint Server 2011
- Microsoft Windows Multipoint Server 2012

Note: do not use a 32-bit Windows operating system in your real deployment, as it supports only 3.25 GB maximum memory.

1.3 Multi-User Application

vMatrix doesn't contain a component or application to allow multiple users to access the host simultaneously, to allow a simultaneous multi-user login, you need to install RDP Wrapper (download and learn more at www.vcloudpoint.com/support/add-ons) or obtain Microsoft RDS CALs. To properly license vCloudPoint zero clients in a Microsoft environment, you are recommended to obtain Microsoft RDS CALs for each vCloudPoint seat. For more information on licensing with Microsoft operating systems see: Article 02 at www.vCloudPoint.com/support/faq-how-tos/

Note: You are licensed by vCloudPoint to use the vMatrix Server Manager software under the terms of the EULA. You cannot use the vMatrix Server Manager software with Windows Client software (i.e., Windows XP, Windows 7, Windows 8/8.1, Windows 10) unless a single user and no other user accesses the same Windows Client software at any one time, or you are authorized to do so under an applicable license from Microsoft. In all cases, your rights and obligations with respect to the use of vMatrix Server Manager software with Windows Server software and Windows Client software are defined by both the vCloudPoint vMatrix Server Manager software EULA and the applicable Microsoft Software License Agreement or EULA.

2. Hardware Requirements

2.1 Preliminary Guideline

The preliminary guideline below provides an estimated starting point from which administrators can test and, if needed, adjust the hardware specifications of their chosen host systems. vCloudPoint recommends you always test your environment in advance of deployment to ensure it meets your expectations.

CPU	2.5 users per thread/core of a 3.6GHz, 22nm,1150 pin CPU (e.g.: i7-4790)
Memory	1.5GB per task user running office, browser, messenger, video on VLC player, etc.
	2GB per power user running Photoshop, Illustrator, Auto-CAD, etc.
Storage	SSD for system and program files + HDD for user data; Storage size to be determined by actual needs.

Network

Average 15Mbps per user within LAN (a single users may consume up to 30Mbps).

Note:

1) Always reserve more resources for the host itself, e.g., 32GB memory for hosting 20 task users = 1.5GB per user *20 users + additional 2 GB for the host itself.

2) the above preliminary shows average resource usage by users simultaneously working under desktop resolution of 1366*768; keep in mind that resource usage will vary depending on the desktop resolution and the average usage habit of those users.

2.2 Practical Recommendations

2.2.1 Host Configurations (5-60 Users):

While the vMatrix Server Manager itself can support up to 99 S100 zero client connections, the host specifications required to provide an optimal user experience will vary by the number of users connecting to a given host and the average usage habits of those users. Performance results are highly dependent upon the individual host hardware, memory, applications being used, OS and network conditions within any LAN. The recommendations below cover best practices for estimating host hardware requirements to support 5 to 60 users on a single host unit. You can use more than one host units for deployments over 60 users. Contact us if you need help in supporting other number of users on a single host unit.

- **5 Users**

Baseline:

Components	Minimum Requirements
CPU	Intel i5-4460 or equivalent that supports 10 (12)G Max. memory.
Memory	10G (for task users) or 12G (for power users); Compatible with CPU (DDR3).
Storage	7200rpm hard drive (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA1150; DDR3, 10/12G or above Max. memory support); Gigabyte LAN controller.

CPU Cooler	Efficient cooling (separate purchase); Compatible with CPU (LGA1150).
Power	350W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
CPU	Intel Core i5-4460 (4 cores, 4 threads, 3.2GHz, 22nm, 1150 pin)
Mainboard	ASUS B85M-E R2.0 (Intel B85/LGA 1150)
Memory	Kingston Hyper Fury DDR3 1600MHz 8GB *2
HDD	Seagate ST1000DM003 (1TB, 7200RPM, 64M, SATA3)
Case	SAMA Craftman 3
Power	SAMA Gold 80plus 500W
CPU Cooler	DEEPCOOL GAMMAXX 400 (air cooling, heat pipe)

- **10 Users**

Baseline:

Components	Minimum Requirements
CPU	Intel i5-4690K or equivalent that supports 18 (22)G Max. memory.
Memory	18G (for task users) or 22G (for power users); Compatible with CPU (DDR3).
Storage	SSD plus HDD (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA1150; DDR3, 18/22G or above Max. memory support); Gigabyte LAN controller.

CPU Cooler	Efficient cooling (separate purchase); Compatible with CPU (LGA1150).
Power	400W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
CPU	Intel Core i5-4690k (4 cores, 4 threads, 3.5GHz, 22nm, 1150 pin)
Mainboard	ASUS B85M-E R2.0 (Intel B85/LGA 1150)
Memory	Kingston Hyper Fury DDR3 1600MHz 8GB *3
HDD	Seagate ST1000DM003 (1TB, 7200RPM, 64M, SATA3)
SSD	ADATA ASP550SS-120GM-C (120G, 2.5 inches, SATA3)
Case	SAMA Craftman 3
Power	SAMA Gold 80plus 500W
CPU Cooler	DEEPCOOL GAMMAXX 400 (air cooling, heat pipe)

- **15 Users**

Baseline:

Components	Minimum Requirements
CPU	Intel i5-6600K or equivalent that supports 26 (32)G Max. memory.
Memory	26G (for task users) or 32G (for power users); Compatible with CPU (DDR4).
Storage	SSD plus HDD (storage size to be determined by actual needs).

Mainboard	Compatible with CPU and memory (LGA1151; DDR4, 26/32G or above Max. memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling (separate purchase); Compatible with CPU (LGA1151).
Power	400W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
CPU	Intel Core i5-6600k (4 cores, 4 threads, 3.5GHz, 14nm,1151 pin)
Mainboard	ASUS B150M-PLUS D3 (Intel B150/LGA 1151)
Memory	For Task Workers: Kingston Hyper Fury DDR4 2133MHz 8GB *4
HDD	Seagate ST1000DM003 (1TB, 7200RPM, 64M, SATA3)
SSD	ADATA ASP550SS-120GM-C (120G, 2.5 inches, SATA3)
Case	SAMA Craftman 3
Power	SAMA Gold 80plus 500W
CPU Cooler	DEEPCOOL GAMMAXX 400 (air cooling, heat pipe)

- **20 Users**

Baseline:

Components	Minimum Requirements
CPU	Intel i7-6700 or equivalent that supports 32 (42)G Max. memory.
Memory	32G (for task users) or 42G (for power users); Compatible with CPU (DDR4).

Storage	SSD plus HDD (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA1151; DDR4, 32/42G or above Max. memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling (separate purchase); Compatible with CPU (LGA1151).
Power	450W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
CPU	Intel Core i7-6700 (4 cores, 8 threads, 3.6GHz, 22nm, 1150 pin)
Mainboard	ASUS B150M-PLUS D3 (Intel B150/LGA 1151)
Memory	For Task Workers: Kingston Hyper Fury DDR4 2133MHz 8GB *4
	For Power Workers: Kingston Hyper Fury DDR4 2133MHz 16GB *3
HDD	Seagate ST2000DM001 (2TB, 7200RPM, 64M, SATA3)
SSD	ADATA ASP550SS-240GM-C (240G 2.5 inches SATA3)
Case	SAMA Craftman 3
Power	SAMA Gold 80plus 500W
CPU Cooler	DEEPCOOL GAMMAXX 400 (air cooling, heat pipe)

- 25 Users

Baseline:

Components	Minimum Requirements
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CPU	Intel i7-6700K or equivalent that supports 40 (52)G Max. memory.
Memory	40G (for task users) or 52G (for power users); Compatible with CPU (DDR4).
Storage	SSD plus HDD (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA1151; DDR4, 40/52G or above Max. memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling; Compatible with CPU (LGA1150, separate purchase).
Power	450W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
CPU	Intel Core i7-6700K (4 cores, 8 threads, 3.6GHz, 22nm, 1150 pin)
Mainboard	ASUS B150M-PLUS D3 (Intel B150/LGA 1151)
Memory	For Task Workers: Kingston Hyper Fury DDR4 2133MHz 16GB *3
	For Power Users: Kingston Hyper Fury DDR4 2133MHz 16GB *4
HDD	Seagate ST2000DM001 (2TB, 7200RPM, 64M, SATA3)
SSD	ADATA ASP550SS-240GM-C (240G, 2.5 inches, SATA3)
Case	SAMA Craftman 3
Power	SAMA Gold 80plus 500W
CPU Cooler	DEEPCOOL GAMMAXX 400 (air cooling, heat pipe)

- 30 Users

Baseline:
1) PC as host

Components	Minimum Requirements
CPU	Intel i7 5820k or equivalent that supports 48 (62)G Max. memory.
Memory	48G (for task users) or 62G (for power users); Compatible with CPU (DDR4).
Storage	SSD plus HDD in RAID (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA2011- v3; DDR4, 48/62G or above Max. memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling (separate purchase); Compatible with CPU (LGA2011- v3).
Power	500W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
CPU	Intel i7 5820k (6 cores, 12 threads, 3.3GHz, 22nm, 2011-3 pin)
Mainboard	MSI X99A SLI PLUS (Intel X99/LGA 2011-V3)
Memory	For Task Workers: DDR4 2133MHz 8GB *6
	For Power Users: DDR4 2133MHz 8GB *8
RAID Card	SYBA FG-EST17A (RAID 0 1 10 & HyperDuo)
HDD	1TB, 7200RPM, 128M, SATA3 *2 in RAID 0
SSD	240G, 2.5 inches, SATA3

Case	SAMA Craftman 3
Power	SAMA Gold 80plus 500W
CPU Cooler	DEEPCOOL NEPTWIN (air cooling, heat pipe)

2) Server as host

Components	Minimum Requirements
CPU	Intel Xeon E5-2620 v3 *2 or equivalent that supports 48(62)G Max. memory.
Memory	48G (for task users) or 62G (for power users); Compatible with CPU (DDR4).
Storage	SSD plus HDD in RAID (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA2011- v3; DDR4, 48/62G or above Max. memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling (separate purchase); Compatible with CPU (LGA2011- v3).
Power	500W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
Server	Dell PowerEdge R430
CPU	Intel Xeon E5-2620 v3 *2 (6 cores, 12 threads, 2.4GHz, 22nm, 2011-3 pin)
Memory	For Task Workers: DDR4 2133MHz 8GB ECC *6
	For Power Users: DDR4 2133MHz 8GB ECC *8
RAID Card	PERC H330 (RAID 0 1 5 10 & 50)

HDD	1TB, 7200RPM, 128M, SATA3 *2 in RAID 0
SSD	240G, 2.5 inches, SATA3

- **40 Users**

Baseline:

Components	Minimum Requirements
CPU	Intel Xeon E5-2630 v3 *2 or equivalent that supports 64 (82)G Max. memory.
Memory	64G (for task users) or 82G (for power users); Compatible with CPU (DDR4).
Storage	SSD plus HDD in RAID (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA2011- v3; DDR4, 64/82G or above Max. memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling (separate purchase); Compatible with CPU (LGA2011- v3).
Power	500W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
Server	Dell PowerEdge R430
CPU	Intel Xeon E5-2630 v3 *2 (8 cores, 16 threads, 2.3GHz, 22nm, 2011-3 pin)
Memory	For Task Workers: DDR4 2133MHz 8GB ECC *8
	For Power Users: DDR4 2133MHz 8GB ECC *11
RAID Card	PERC H330 (RAID 0 1 5 10 & 50)

HDD	1TB, 7200RPM, 128M, SATA3 *3 in RAID 0
SSD	480G, 2.5 inches, SATA3

- **50 Users**

Baseline:

Components	Minimum Requirements
CPU	Intel E5-2640 v3 *2 or equivalent that supports 78 (102)G Max. memory.
Memory	78G (for task users) or 102G (for power users); Compatible with CPU (DDR4).
Storage	SSD plus HDD in RAID (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA2011- v3; DDR4, 78/102G or above Max. memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling; Compatible with CPU (Socket 2011- v3).
Power	550W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
Server	Dell PowerEdge R430
CPU	Intel Xeon E5-2640 v3 *2 (8 cores, 16 threads, 2.6GHz, 22nm, 2011-3 pin)
Memory	For Task Workers: DDR4 2133MHz 8GB ECC *10
	For Power Users: DDR4 2133MHz 16GB ECC *7
RAID Card	PERC H330 (RAID 0 1 5 10 & 50)

HDD	1TB, 7200RPM, 128M, SATA3 *3 in RAID 0
SSD	480G, 2.5 inches, SATA3

- **60 Users**

Baseline:

Components	Minimum Requirements
CPU	Intel E5-2660 v3 *2 or equivalent that supports 92 (122)G Max. memory.
Memory	92G (for task users) or 122G (for power users); Compatible with CPU (DDR4).
Storage	SSD plus HDD in RAID (storage size to be determined by actual needs).
Mainboard	Compatible with CPU and memory (LGA2011- v3; DDR4, 92/122G or above Max memory support); Gigabyte LAN controller.
CPU Cooler	Efficient cooling; Compatible with CPU (Socket 2011- v3).
Power	550W.
Case	Compatible with mainboard and CPU cooler.

Examples:

Components	Recommendations
Server	Dell PowerEdge R430
CPU	Intel Xeon E5-2660 v3 *2 (10 cores, 20 threads, 2.6GHz, 22nm, 2011-3 pin)
Memory	For Task Workers: DDR4 2133MHz 16GB ECC *6
	For Power Users: DDR4 2133MHz 16GB ECC *8
RAID Card	PERC H330 (RAID 0 1 5 10 & 50)

HDD	1TB, 7200RPM, 128M, SATA3 *4 in RAID 0
SSD	480G, 2.5 inches, SATA3

Tips:

1) CPU: When you are configuring hosts for the number of users, CPU selection should be given the highest priority and then choose other components compatible with the CPU and the others. View CPU Benchmark in the section below for CPU selection.

2) CPU cooler: If you choose assembly desktop PCs, use separate CPU cooler priced over US\$13 as most free CPU cooler that comes in bundle with the CPU is not efficient and durable.

Note: resource usage testing was performed under the following conditions, keep in mind that resource usage will vary with these conditions changing. Actual sizing requirements depend on particular workload. Always validate sizing using your own applications.

- 1) Operation system: Windows Server 2012 R2;
- 2) Client desktop resolution: 1366*768;
- 3) vMatrix Server Manager version: 2.0.3;
- 4) Client Firmware version: 2.0.0.10;
- 5) Applications was run by the corresponding number of simultaneous working users on zero clients;
- 6) Video testing was performed using VLC player 2.15 with rendering done on zero clients.

2.2.2 Networking Hardware :

Switch	10/100/1000Mbps Base-T	
Cable	Connecting zero clients	10/100Mbps or 10/100/1000Mbps Base-T
	Connecting hosts/ switches	10/100/1000Mbps Base-T

Note:

1) For deployments over 60 users on a single host unit, the host network controller, the switch connecting to host (primary switch), the cables connecting to host and primary switch should support

10/100/1000/10000Mbps Base-T.

2) Some switches in the market are not qualified to be 10/100/1000Mbps Base-T supported as their manufacturers claim. vCloudPoint recommends you always test transmission speed of the switches in advance of deployment to ensure it meets your expectations.

3) Although vCloudPoint zero clients have a WIFI option, you are recommended to use standard Ethernet network as unreliable WIFI network may cause disconnection or experience compromised.

4) Most of the Wide Area Networks (WAN) have excessive latency and lower bandwidth. This compromises with the rich PC-like experience over the network.

For more information on networking configuration, view [Network has a great impact on zero client performance](#) at Knowledge Base on vCloudPoint website.

3. CPU Benchmarks

The following benchmarks are taken from internet to help you deciding CPU for your deployment. To learn more, view the resource website at www.cpubenchmark.net/.

3.1 System With Single High End CPU - Updated 21th of March 2016

CPU Model	Benchmark (higher is better)	Price (USD)
Intel Core i7-5960X @ 3.00GHz	16,000	\$1,049.99
Intel Xeon E5-1680 v2 @ 3.00GHz	15,994	NA
Intel Xeon E5-2658 v3 @ 2.20GHz	15,700	NA
Intel Xeon E5-2695 v2 @ 2.40GHz	15,502	\$2,339.99
Intel Xeon E5-2650 v3 @ 2.30GHz	15,225	\$1,159.00
Intel Xeon E5-2670 v2 @ 2.50GHz	14,983	\$1,559.99
Intel Xeon E5-2687W @ 3.10GHz	14,480	\$2,276.91

Intel Xeon E5-2690 @ 2.90GHz	14,308	\$1,513.51
Intel Xeon E5-2685 v3 @ 2.60GHz	14,154	NA
Intel Xeon E5-2640 v3 @ 2.60GHz	14,073	\$974.00
Intel Core i7-4960X @ 3.60GHz	13,891	\$1,024.99*
Intel Xeon E5-2658 v2 @ 2.40GHz	13,875	NA
Intel Xeon E5-2689 @ 2.60GHz	13,869	NA
Intel Xeon E5-1660 v2 @ 3.70GHz	13,772	\$1,137.50*
Intel Xeon E5-2660 v2 @ 2.20GHz	13,659	\$1,399.99
Intel Xeon E5-2643 v3 @ 3.40GHz	13,626	\$1,792.06
Intel Core i7-5930K @ 3.50GHz	13,620	\$579.99
Intel Xeon E5-1650 v3 @ 3.50GHz	13,490	\$657.94
Intel Xeon E5-2680 @ 2.70GHz	13,410	\$952.95
Intel Xeon E5-1660 v3 @ 3.00GHz	13,331	\$1,138.99
Intel Xeon E5-2663 v3 @ 2.80GHz	13,081	NA
Intel Core i7-4930K @ 3.40GHz	13,054	\$820.65
Intel Xeon E5-2650 v2 @ 2.60GHz	13,026	\$1,139.95
Intel Core i7-5820K @ 3.30GHz	12,990	\$349.99
Intel Xeon E5-2630 v3 @ 2.40GHz	12,902	\$684.99

Intel Xeon E5-2628L v3 @ 2.00GHz	12,844	NA
Intel Core i7-3960X @ 3.30GHz	12,740	\$1,011.79
Intel Core i7-3970X @ 3.50GHz	12,674	\$807.95
Intel Xeon E5-1660 @ 3.30GHz	12,614	\$1,104.00*
Intel Xeon E5-1650 v2 @ 3.50GHz	12,551	\$529.95
Intel Xeon E5-2670 @ 2.60GHz	12,545	\$1,549.99*
Intel Xeon D-1541 @ 2.10GHz	12,141	NA
Intel Xeon E5-2665 @ 2.40GHz	12,126	\$1,075.23
Intel Core i7-3930K @ 3.20GHz	12,072	\$519.99
Intel Xeon E5-4650 @ 2.70GHz	11,960	\$3,899.99*
Intel Xeon E5-2660 @ 2.20GHz	11,891	\$203.62
Intel Xeon E5-1650 @ 3.20GHz	11,792	\$929.77
Intel Xeon E5-2643 v2 @ 3.50GHz	11,735	\$1,808.61*
Intel Core i7-4790K @ 4.00GHz	11,213	\$319.99
Intel Core i7-5775C @ 3.30GHz	11,141	\$371.99
Intel Core i7-6700K @ 4.00GHz	11,007	\$373.98
Intel Xeon D-1540 @ 2.00GHz	10,883	NA
Intel Core i7-5950HQ @ 2.90GHz	10,850	NA

Intel Xeon E3-1285L v3 @ 3.10GHz	10,483	NA
Intel Xeon E5-2650 @ 2.00GHz	10,436	\$609.00
Intel Xeon E5-2630 v2 @ 2.60GHz	10,421	\$609.99
Intel Xeon E3-1270 v5 @ 3.60GHz	10,382	\$359.99
Intel Xeon E5-2667 @ 2.90GHz	10,351	\$1,837.78
Intel Xeon E3-1275 v5 @ 3.60GHz	10,339	NA
Intel Xeon E5-2637 v3 @ 3.50GHz	10,306	\$1,042.07
AMD FX-9590 Eight-Core	10,251	\$229.99
Intel Xeon E3-1245 v5 @ 3.50GHz	10,245	NA
Intel Xeon E3-1276 v3 @ 3.60GHz	10,235	\$339.99
Intel Xeon E5-1630 v3 @ 3.70GHz	10,220	\$407.49
Intel Core i7-4770K @ 3.50GHz	10,156	\$390.99
Intel Xeon E3-1271 v3 @ 3.60GHz	10,140	\$342.99
AMD Opteron 6380	10,082	\$1,110.99
Intel Xeon E3-1240 v5 @ 3.50GHz	10,081	NA
Intel Xeon E3-1281 v3 @ 3.70GHz	10,081	\$455.00
Intel Core i7-4980HQ @ 2.80GHz	10,066	NA
Intel Core i7-4790 @ 3.60GHz	10,023	\$309.99

Intel Xeon E3-1241 v3 @ 3.50GHz	10,006	\$277.99
Intel Core i7-6700 @ 3.40GHz	9,987	\$319.99
Intel Xeon E3-1290 V2 @ 3.70GHz	9,925	\$885.00*
Intel Xeon E5-2620 v3 @ 2.40GHz	9,923	\$429.99
Intel Xeon E5-2640 v2 @ 2.00GHz	9,914	\$889.99
Intel Core i7-4771 @ 3.50GHz	9,887	\$320.00
Intel Xeon E3-1246 v3 @ 3.50GHz	9,865	\$279.99
Intel Core i7-4960HQ @ 2.60GHz	9,855	\$623.00*
Intel Xeon E3-1270 v3 @ 3.50GHz	9,852	\$339.99
Intel Core i7-4770 @ 3.40GHz	9,832	\$306.99
Intel Core i7-4770R @ 3.20GHz	9,822	NA
Intel Xeon E3-1275 v3 @ 3.50GHz	9,783	\$760.70
Intel Core i7-4820K @ 3.70GHz	9,776	\$455.57
Intel Core i7-4940MX @ 3.10GHz	9,772	\$1,008.95*
Intel Xeon E3-1230 v5 @ 3.40GHz	9,755	NA
Intel Xeon E3-1280 V2 @ 3.60GHz	9,751	\$644.99*
Intel Xeon E5-2640 @ 2.50GHz	9,737	\$560.45
Intel Xeon E3-1240 v3 @ 3.40GHz	9,677	\$316.83

Intel Xeon E5-1620 v3 @ 3.50GHz	9,659	\$307.99
Intel Core i7-4790S @ 3.20GHz	9,634	\$304.99
Intel Xeon E3-1231 v3 @ 3.40GHz	9,626	\$241.80
Intel Xeon E3-1280 v3 @ 3.60GHz	9,615	\$800.49*
Intel Core i7-3770K @ 3.50GHz	9,575	\$559.50
Intel Xeon W3690 @ 3.47GHz	9,569	\$1,228.99*
AMD FX-9370 Eight-Core	9,525	\$199.99
Intel Xeon E3-1245 v3 @ 3.40GHz	9,524	\$299.99
Intel Core i7-4910MQ @ 2.90GHz	9,513	\$784.02*
Intel Xeon E5-2658 @ 2.10GHz	9,484	\$899.95*
Intel Xeon E3-1270 V2 @ 3.50GHz	9,484	\$359.99
Intel Xeon E5-1620 v2 @ 3.70GHz	9,479	\$314.99
Intel Core i7-3940XM @ 3.00GHz	9,477	\$539.00*
Intel Core i7-6920HQ @ 2.90GHz	9,468	NA
Intel Core i7-4930MX @ 3.00GHz	9,456	\$1,096.00*
Intel Xeon E3-1535M v5 @ 2.90GHz	9,436	NA
Intel Xeon W3680 @ 3.33GHz	9,390	\$1,108.95*
Intel Xeon E3-1286 v3 @ 3.70GHz	9,388	NA

Intel Core i7-4870HQ @ 2.50GHz	9,367	NA
Intel Xeon E5-2637 v2 @ 3.50GHz	9,354	\$1,068.24*
Intel Core i7-4770S @ 3.10GHz	9,349	\$302.99
Intel Core i7-4860HQ @ 2.40GHz	9,347	NA
Intel Core i7-3770 @ 3.40GHz	9,341	\$329.99
Intel Xeon E3-1230 v3 @ 3.30GHz	9,326	\$256.95
Intel Xeon E3-1275 V2 @ 3.50GHz	9,321	\$455.32
Intel Xeon E5-2440 @ 2.40GHz	9,319	\$1,039.44*
Intel Xeon E3-1240 V2 @ 3.40GHz	9,281	\$304.41
Intel Core i7-990X @ 3.47GHz	9,242	\$1,509.99
Intel Core i7-3920XM @ 2.90GHz	9,222	\$1,096.00*
Intel Xeon X5690 @ 3.47GHz	9,203	\$410.00
Intel Core i7-4850HQ @ 2.30GHz	9,143	\$434.00*
AMD Opteron 6282 SE	9,116	\$1,089.99*
Intel Xeon E3-1245 V2 @ 3.40GHz	9,101	\$607.59
Intel Core i7-4760HQ @ 2.10GHz	9,101	NA
Intel Core i7-4900MQ @ 2.80GHz	9,098	\$559.99*
Intel Xeon E5-1620 @ 3.60GHz	9,097	\$349.99*

Intel Core i7-6820HK @ 2.70GHz	9,060	NA
Intel Core i7-4790T @ 2.70GHz	9,050	NA
Intel Xeon E5-2623 v3 @ 3.00GHz	9,041	\$483.81
Intel Core i7-6700T @ 2.80GHz	9,020	NA
Intel Core i7-3820 @ 3.60GHz	9,000	\$394.38
Intel Xeon X5680 @ 3.33GHz	8,983	\$505.65
AMD FX-8370 Eight-Core	8,983	\$189.99
Intel Core i7-4770HQ @ 2.20GHz	8,978	NA
AMD Opteron 6276	8,971	\$129.54
Intel Core i7-980X @ 3.33GHz	8,960	\$959.00
AMD FX-8350 Eight-Core	8,949	\$159.99
Intel Xeon E5-2630 @ 2.30GHz	8,926	\$738.13*
Intel Core i7-3770S @ 3.10GHz	8,901	\$349.99
Intel Core i7-3840QM @ 2.80GHz	8,880	\$500.00
Intel Xeon E3-1230 V2 @ 3.30GHz	8,849	\$275.74
Intel Core i7-980 @ 3.33GHz	8,849	\$1,108.95*
Intel Core i7-2700K @ 3.50GHz	8,826	\$440.00*
Intel Core i7-4810MQ @ 2.80GHz	8,781	\$432.40*

Intel Xeon E3-1265L v3 @ 2.50GHz	8,773	\$508.95
Intel Core i7-4770T @ 2.50GHz	8,720	\$474.34
Intel Xeon E3-1290 @ 3.60GHz	8,704	\$885.00*
Intel Xeon E5-2620 v2 @ 2.10GHz	8,671	\$388.98
Intel Xeon E3-1275L v3 @ 2.70GHz	8,665	NA
Intel Xeon E5-2420 v2 @ 2.20GHz	8,629	\$438.58
Intel Core i7-6820HQ @ 2.70GHz	8,604	NA
Intel Xeon X5675 @ 3.07GHz	8,585	\$209.00
Intel Core i7-5700HQ @ 2.70GHz	8,580	NA
Intel Xeon E3-1280 @ 3.50GHz	8,567	\$654.99
Intel Core i7-4800MQ @ 2.70GHz	8,542	\$509.95*
Intel Core i7-970 @ 3.20GHz	8,534	\$855.95
Intel Core i7-3820QM @ 2.70GHz	8,532	\$602.97*
Intel Core i7-2600K @ 3.40GHz	8,520	\$565.15
Intel Xeon E5-2643 @ 3.30GHz	8,474	\$988.79
Intel Xeon W3670 @ 3.20GHz	8,437	\$964.60
Intel Core i7-3740QM @ 2.70GHz	8,397	\$389.99*
Intel Xeon E3-1275 @ 3.40GHz	8,350	\$369.89

Intel Xeon E5-2430 v2 @ 2.50GHz	8,324	\$569.99
Intel Xeon E3-1270 @ 3.40GHz	8,284	\$961.81*
Intel Core i7-2600 @ 3.40GHz	8,267	\$348.50
Intel Core i7-5700EQ @ 2.60GHz	8,239	NA
Intel Core i7-4750HQ @ 2.00GHz	8,218	NA
Intel Core i7-3720QM @ 2.60GHz	8,215	\$309.99*
Intel Core i7-3770T @ 2.50GHz	8,211	\$329.99*
Intel Xeon E3-1505M v5 @ 2.80GHz	8,178	NA
Intel Xeon X5670 @ 2.93GHz	8,130	\$167.29
Intel Xeon E3-1245 @ 3.30GHz	8,105	\$309.99
Intel Core i7-4720HQ @ 2.60GHz	8,100	NA
Intel Core i7-4722HQ @ 2.40GHz	8,052	NA
Intel Core i5-5675C @ 3.10GHz	8,030	\$289.99
AMD FX-8320 Eight-Core	8,020	\$143.30
Intel Core i7-6700HQ @ 2.60GHz	8,019	NA
Intel Xeon X5660 @ 2.80GHz	8,010	\$148.00
Intel Core i7-4710MQ @ 2.50GHz	7,989	\$219.00*
Intel Xeon E3-1240 @ 3.30GHz	7,974	\$294.99

Intel Xeon E5-2620 @ 2.00GHz	7,970	\$358.59
Intel Xeon E3-1230 @ 3.20GHz	7,909	\$251.99
Intel Core i7-4710HQ @ 2.50GHz	7,874	NA
Intel Xeon E5-2630L @ 2.00GHz	7,868	NA
AMD Opteron 6328	7,813	\$617.94
Intel Core i5-6600K @ 3.50GHz	7,792	\$248.89
Intel Core i7-4700HQ @ 2.40GHz	7,776	\$383.00*
Intel Xeon E3-1235 @ 3.20GHz	7,764	\$1,325.66
Intel Core i7-4700MQ @ 2.40GHz	7,751	\$188.95*
AMD FX-8370E Eight-Core	7,720	\$218.00
Intel Core i5-4690K @ 3.50GHz	7,705	\$219.99
AMD FX-8310 Eight-Core	7,669	NA
Intel Core i7-3630QM @ 2.40GHz	7,623	\$239.99*
Intel Core i5-4670K @ 3.40GHz	7,622	\$279.90
AMD FX-8150 Eight-Core	7,621	\$165.99*
Intel Core i5-4690 @ 3.50GHz	7,617	\$224.50
Intel Xeon X5650 @ 2.67GHz	7,611	\$105.00
Intel Xeon E3-1265L V2 @ 2.50GHz	7,602	\$732.58

Intel Core i7-4702HQ @ 2.20GHz	7,583	NA
AMD FX-8300 Eight-Core	7,580	\$109.99
Intel Core i5-6600 @ 3.30GHz	7,542	\$229.99
Intel Xeon E3-1240L v3 @ 2.00GHz	7,507	NA
Intel Core i7-4712HQ @ 2.30GHz	7,496	NA
Intel Core i7-4785T @ 2.20GHz	7,480	NA
Intel Xeon E3-1220 v5 @ 3.00GHz	7,471	NA
Intel Core i7-3610QM @ 2.30GHz	7,461	\$399.99*
AMD FX-8320E Eight-Core	7,443	\$135.99
Intel Core i7-4700EQ @ 2.40GHz	7,417	NA
Intel Core i7-4770TE @ 2.30GHz	7,410	NA
Intel Xeon E3-1226 v3 @ 3.30GHz	7,403	\$224.99
Intel Core i5-4690S @ 3.20GHz	7,387	\$224.99
Intel Core i5-4670 @ 3.40GHz	7,372	\$222.99
Intel Core i7-3615QM @ 2.30GHz	7,367	NA
Intel Xeon E5-1410 @ 2.80GHz	7,312	NA
Intel Core i7-4765T @ 2.00GHz	7,310	NA
Intel Core i7-2960XM @ 2.70GHz	7,272	\$1,096.00*

Intel Xeon X5687 @ 3.60GHz	7,219	\$187.00
Intel Core i5-4590 @ 3.30GHz	7,213	\$199.99
Intel Xeon E3-1230L v3 @ 1.80GHz	7,199	NA
Intel Core i7-4712MQ @ 2.30GHz	7,184	NA
Intel Core i7-4702MQ @ 2.20GHz	7,168	NA
Intel Xeon D-1521 @ 2.40GHz	7,164	NA
Intel Core i7-2860QM @ 2.50GHz	7,152	\$599.99*
Intel Core i5-3570K @ 3.40GHz	7,143	\$359.99
Intel Xeon E5-2420 @ 1.90GHz	7,136	\$633.99
Intel Core i7-2600S @ 2.80GHz	7,081	\$186.26
Intel Xeon E5649 @ 2.53GHz	7,079	\$113.95
Intel Xeon X5677 @ 3.47GHz	7,048	\$129.98*
Intel Core i5-6500 @ 3.20GHz	7,043	\$204.99
Intel Xeon L5639 @ 2.13GHz	7,021	NA
Intel Core i5-4570 @ 3.20GHz	7,017	\$199.99
Intel Xeon E3-1225 v3 @ 3.20GHz	6,998	\$354.85
Intel Core i5-4590S @ 3.00GHz	6,998	\$209.99
Intel Core i5-3570 @ 3.40GHz	6,977	\$385.00

Intel Core i7-2920XM @ 2.50GHz	6,957	\$1,096.00*
AMD FX-6350 Six-Core	6,955	\$129.99
Intel Core i7-3632QM @ 2.20GHz	6,926	\$389.95*
Intel Core i5-6600T @ 2.70GHz	6,921	\$472.40*
Intel Xeon E5-2430 @ 2.20GHz	6,878	\$290.00
Intel Core i7-3612QM @ 2.10GHz	6,832	NA
Intel Xeon E5-1410 v2 @ 2.80GHz	6,822	NA
Intel Core i5-3550 @ 3.30GHz	6,819	\$209.00
Intel Xeon E3-1225 V2 @ 3.20GHz	6,802	\$506.59
Intel Core i5-3550S @ 3.00GHz	6,776	NA
Intel Xeon E5-1607 v3 @ 3.10GHz	6,767	NA
Intel Core i7-2840QM @ 2.40GHz	6,766	NA
Intel Core i7-3615QE @ 2.30GHz	6,758	NA
AMD Opteron 6272	6,748	\$325.00
Intel Core i5-4690T @ 2.50GHz	6,714	NA
Intel Xeon L5640 @ 2.27GHz	6,711	\$290.00
Intel Core i7-3612QE @ 2.10GHz	6,684	NA
Intel Core i5-2550K @ 3.40GHz	6,657	\$499.60*

Intel Core i7-2760QM @ 2.40GHz	6,648	\$378.00*
Intel Core i7-2820QM @ 2.30GHz	6,635	\$318.11*
Intel Core i5-4460 @ 3.20GHz	6,624	\$183.99
Intel Core i5-4570S @ 2.90GHz	6,621	\$194.99
Intel Xeon E3-1220 v3 @ 3.10GHz	6,620	\$204.99
Intel Core i5-3570S @ 3.10GHz	6,593	NA
Intel Core i7-3635QM @ 2.40GHz	6,586	NA
AMD FX-8120 Eight-Core	6,574	\$173.18*
Intel Core i5-3470 @ 3.20GHz	6,562	\$259.99
Intel Xeon W3580 @ 3.33GHz	6,560	\$1,083.47*
Intel Xeon E5645 @ 2.40GHz	6,556	\$272.68*
Intel Xeon E3-1260L @ 2.40GHz	6,534	\$576.10*
Intel Xeon E3-1220 V2 @ 3.10GHz	6,512	\$257.95
Intel Core i5-6400 @ 2.70GHz	6,508	\$189.99
Intel Core i5-4570R @ 2.70GHz	6,485	NA
Intel Core i5-2500K @ 3.30GHz	6,454	\$311.22
Intel Core i5-3450 @ 3.10GHz	6,447	\$598.29
Intel Core i5-4670S @ 3.10GHz	6,436	NA

Intel Core i5-4440 @ 3.10GHz	6,412	\$189.99
AMD Opteron 3380	6,384	NA
Intel Core i5-4460S @ 2.90GHz	6,376	NA
AMD FX-6300 Six-Core	6,343	\$102.33
Intel Core i5-4670T @ 2.30GHz	6,336	\$259.00
Intel Xeon W5590 @ 3.33GHz	6,310	\$1,759.40*
Intel Core i5-3475S @ 2.90GHz	6,298	NA
Intel Core i5-6440HQ @ 2.60GHz	6,272	NA
Intel Core i7-975 @ 3.33GHz	6,269	\$419.00
Intel Xeon W3570 @ 3.20GHz	6,256	\$1,089.99*
Intel Core i5-4430 @ 3.00GHz	6,247	\$189.99
Intel Core i5-2500 @ 3.30GHz	6,227	\$226.00
AMD FX-6130 Six-Core	6,215	NA
Intel Core i5-3470S @ 2.90GHz	6,199	\$319.95*
Intel Core i7-3610QE @ 2.30GHz	6,193	NA
Intel Core i7-2720QM @ 2.20GHz	6,131	\$309.00*
Intel Core i7-2715QE @ 2.10GHz	6,120	NA
Intel Core i5-4440S @ 2.80GHz	6,113	\$192.99

Intel Xeon E3-1220 @ 3.10GHz	6,113	\$219.99
AMD FX-6200 Six-Core	6,105	\$130.51
AMD FX-8100 Eight-Core	6,092	\$142.00*
Intel Core i5-2450P @ 3.20GHz	6,086	\$214.99*
Intel Core i5-3350P @ 3.10GHz	6,085	\$189.99*
Intel Core i3-6320 @ 3.90GHz	6,077	\$168.95
Intel Xeon W3565 @ 3.20GHz	6,056	\$322.99*

3.2 Systems with Multiple CPUs - Updated 21th of March 2016

CPU Model	Benchmark (higher is better)	Price (USD)
[Dual CPU] Intel Xeon E5-2698 v3 @ 2.30GHz	30,217	\$7,291.04*
[Dual CPU] Intel Xeon E5-2697 v3 @ 2.60GHz	28,092	\$5,495.98
[Dual CPU] Intel Xeon E5-4669 v3 @ 2.10GHz	27,457	NA
[Dual CPU] Intel Xeon E5-2690 v3 @ 2.60GHz	27,279	\$3,099.32
[Dual CPU] Intel Xeon E5-2695 v3 @ 2.30GHz	27,267	\$4,750.20
[Dual CPU] Intel Xeon E5-2680 v3 @ 2.50GHz	26,013	\$3,435.24
[Dual CPU] Intel Xeon E5-2699 v3 @ 2.30GHz	25,798	\$8,737.98
[Dual CPU] Intel Xeon E5-2696 v2 @ 2.50GHz	24,833	NA
[Dual CPU] Intel Xeon E5-2666 v3 @ 2.90GHz	24,804	NA

[Dual CPU] Intel Xeon E5-2687W v3 @ 3.10GHz	24,751	\$4,315.90
[Dual CPU] Intel Xeon E5-2690 v2 @ 3.00GHz	24,513	\$4,129.98
[Quad CPU] Intel Xeon E5-4627 v2 @ 3.30GHz	24,511	NA
[Dual CPU] Intel Xeon E5-2687W v2 @ 3.40GHz	24,501	\$4,199.98
[Dual CPU] Intel Xeon E5-2697 v2 @ 2.70GHz	23,982	\$5,299.98
[Dual CPU] Intel Xeon E5-2663 v3 @ 2.80GHz	23,581	NA
[Dual CPU] Intel Xeon E5-2660 v3 @ 2.60GHz	23,493	\$2,982.34
[Dual CPU] Intel Xeon E5-2673 v3 @ 2.40GHz	23,446	NA
[Dual CPU] Intel Xeon E5-2680 v2 @ 2.80GHz	23,323	\$3,506.02
[Dual CPU] Intel Xeon E5-2667 v2 @ 3.30GHz	23,295	\$4,849.72
[Dual CPU] Intel Xeon E5-2670 v3 @ 2.30GHz	22,953	\$3,276.10
[Dual CPU] Intel Xeon E5-2667 v3 @ 3.20GHz	22,730	\$4,382.36
[Dual CPU] Intel Xeon E7-4890 v2 @ 2.80GHz	22,412	NA
[Dual CPU] Intel Xeon E5-2670 v2 @ 2.50GHz	22,210	\$3,119.98
[Dual CPU] Intel Xeon E5-2695 v2 @ 2.40GHz	21,980	\$4,679.98
[Dual CPU] Intel Xeon E5-2683 v3 @ 2.00GHz	21,613	\$4,273.98*
[Dual CPU] Intel Xeon E5-2643 v2 @ 3.50GHz	21,394	\$3,617.22*
[Dual CPU] Intel Xeon E5-2687W @ 3.10GHz	21,269	\$4,553.82

[Dual CPU] Intel Xeon E5-2650 v3 @ 2.30GHz	21,045	\$2,318.00
[Dual CPU] Intel Xeon E5-2640 v3 @ 2.60GHz	20,930	\$1,948.00
[Dual CPU] Intel Xeon E5-2690 @ 2.90GHz	20,755	\$3,027.02
[Dual CPU] Intel Xeon E5-2643 v3 @ 3.40GHz	20,581	\$3,584.12
[Dual CPU] Intel Xeon E5-2689 @ 2.60GHz	20,362	NA
[Dual CPU] Intel Xeon E5-4650 @ 2.70GHz	19,753	\$7,799.98*
[Dual CPU] Intel Xeon E5-4627 v2 @ 3.30GHz	19,491	NA
[Dual CPU] Intel Xeon E5-2650 v2 @ 2.60GHz	19,490	\$2,279.90
[Dual CPU] Intel Xeon E5-2660 v2 @ 2.20GHz	19,445	\$2,799.98
[Dual CPU] Intel Xeon E5-4640 v2 @ 2.20GHz	19,209	NA
[Dual CPU] Intel Xeon E5-2680 @ 2.70GHz	18,926	\$1,905.90
[Dual CPU] Intel Xeon E5-2630 v3 @ 2.40GHz	18,655	\$1,369.98
[Dual CPU] Intel Xeon E5-2470 v2 @ 2.40GHz	18,512	\$3,161.98
[Dual CPU] Intel Xeon E5-2670 @ 2.60GHz	18,469	\$3,099.98*
[Dual CPU] Intel Xeon E5-2665 @ 2.40GHz	17,738	\$2,150.46
[Dual CPU] Intel Xeon E7- 4870 @ 2.40GHz	17,541	\$6,199.98
[Quad CPU] Intel Xeon E7- 4850 @ 2.00GHz	17,269	\$7,479.96
[Dual CPU] Intel Xeon E5-2660 @ 2.20GHz	17,199	\$407.24

[Quad CPU] AMD Opteron 6276	17,144	\$518.16
[Dual CPU] Intel Xeon E5-2667 @ 2.90GHz	16,924	\$3,675.56
[Dual CPU] Intel Xeon E5-2637 v3 @ 3.50GHz	16,904	\$2,084.14
[Quad CPU] Intel Xeon E5-4617 @ 2.90GHz	16,874	NA
[Dual CPU] Intel Xeon E5-2470 @ 2.30GHz	16,613	\$2,959.98*
[Dual CPU] Intel Xeon E5-2630 v2 @ 2.60GHz	16,197	\$1,219.98
[Dual CPU] Intel Xeon E5-2637 v2 @ 3.50GHz	16,148	\$2,136.48*
[Dual CPU] Intel Xeon E5-2620 v3 @ 2.40GHz	15,607	\$859.98
[Dual CPU] Intel Xeon E5-2650 @ 2.00GHz	15,325	\$1,218.00
[Dual CPU] Intel Xeon E5-2640 @ 2.50GHz	15,061	\$1,120.90
[Dual CPU] Intel Xeon E5-2623 v3 @ 3.00GHz	14,900	\$967.62
[Dual CPU] Intel Xeon E5-2640 v2 @ 2.00GHz	14,773	\$1,779.98
[Dual CPU] Intel Xeon E5-2650L @ 1.80GHz	14,385	NA
[Dual CPU] Intel Xeon X5690 @ 3.47GHz	14,372	\$820.00
[Dual CPU] AMD Opteron 6380	14,200	\$2,221.98
[Quad CPU] Intel Xeon X7560 @ 2.27GHz	14,025	\$826.72
[Dual CPU] Intel Xeon X5680 @ 3.33GHz	13,975	\$1,011.30
[Dual CPU] Intel Xeon E5-2630 @ 2.30GHz	13,858	\$1,476.26*

[Dual CPU] Intel Xeon E5-2430 @ 2.20GHz	13,637	\$580.00
[Dual CPU] Intel Xeon E5-2630L v2 @ 2.40GHz	13,636	NA
[Dual CPU] Intel Xeon X5679 @ 3.20GHz	13,618	NA
[Dual CPU] Intel Xeon E5-2643 @ 3.30GHz	13,492	\$1,977.58
[Dual CPU] Intel Xeon E5-2620 v2 @ 2.10GHz	13,461	\$777.96
[Dual CPU] Intel Xeon X5675 @ 3.07GHz	12,955	\$418.00
[Dual CPU] AMD Opteron 6386 SE	12,953	\$4,815.02*
[Dual CPU] Intel Xeon X5670 @ 2.93GHz	12,865	\$334.58
[Quad CPU] Intel Xeon X7460 @ 2.66GHz	12,860	NA
[Dual CPU] Intel Xeon E5-2620 @ 2.00GHz	12,592	\$717.18
[Quad CPU] AMD Opteron 6272	12,587	\$1,300.00
[Dual CPU] Intel Xeon E5-2420 v2 @ 2.20GHz	12,487	\$877.16
[Dual CPU] Intel Xeon X5687 @ 3.60GHz	12,305	\$374.00
[Dual CPU] Intel Xeon E7-2850 @ 2.00GHz	12,145	NA
[Quad CPU] AMD Opteron 6278	12,055	\$2,906.52*
[Dual CPU] AMD Opteron 6284 SE	11,985	NA
[Dual CPU] Intel Xeon X5660 @ 2.80GHz	11,939	\$296.00
[Dual CPU] AMD Opteron 4386	11,888	\$719.98

[Dual CPU] Intel Xeon E5-2420 @ 1.90GHz	11,832	\$1,267.98
[Dual CPU] AMD Opteron 6328	11,810	\$1,235.88
[Dual CPU] Intel Xeon X5650 @ 2.67GHz	11,740	\$210.00
[Dual CPU] Intel Xeon X5677 @ 3.47GHz	11,698	\$259.96*
[Dual CPU] AMD Opteron 6344	11,178	\$778.00
[Dual CPU] Intel Xeon E5-2630L @ 2.00GHz	11,087	NA
[Dual CPU] Intel Xeon E5649 @ 2.53GHz	10,847	\$227.90
[Dual CPU] AMD Opteron 6274	10,682	\$1,749.90*
[Dual CPU] Intel Xeon E5645 @ 2.40GHz	10,643	\$545.36*
[Dual CPU] Intel Xeon W5590 @ 3.33GHz	10,638	\$3,518.80*
[Dual CPU] AMD Opteron 6320	10,489	\$579.98
[Dual CPU] AMD Opteron 6276	10,379	\$259.08
[Dual CPU] Intel Xeon W5580 @ 3.20GHz	10,201	\$3,319.98*
[Dual CPU] Intel Xeon X5647 @ 2.93GHz	10,200	\$2,415.00*
[Dual CPU] Intel Xeon L5640 @ 2.27GHz	10,191	\$580.00
[Dual CPU] AMD Opteron 6272	10,006	\$650.00

More Information

For more detailed information on setting up and managing the vCloudPoint Sharing Computing System, consult the online help and the FAQ and Knowledge Base in the vCloudPoint Support Center at www.vcloudpoint.com.

For more information on the vCloudPoint System or to obtain a trail unit, please visit www.vcloudpoint.com or email us at info@vcloudpoint.com.

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