



HP Intel Xeon E5-2699 V3 processor 2.3 GHz 45 MB L3

Brand : HP

Product code: J6F23AV

Product name : Intel Xeon E5-2699 V3

Intel Xeon E5-2699 V3 (45M Cache, 2.30 GHz) 18-core

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Intel Virtualization Technology (VT-x)

Intel Virtualization Technology (VT-x) allows one hardware platform to function as multiple “virtual” platforms. It offers improved manageability by limiting downtime and maintaining productivity by isolating computing activities into separate partitions.



Intel 64

Intel 64 architecture delivers 64-bit computing on server, workstation, desktop and mobile platforms when combined with supporting software. Intel 64 architecture improves performance by allowing systems to address more than 4 GB of both virtual and physical memory.

Processor		Features	
Processor model *	E5-2699V3	PCI Express slots version	3.0
Processor base frequency *	2.3 GHz	Supported instruction sets	AES, AVX 2.0
Processor family *	Intel Xeon E5 v3	Scalability	2S
Processor cores *	18	CPU configuration (max)	2
Processor socket *	LGA 2011-v3	Embedded options available	✗
Component for	Server/workstation	Processor special features	
Processor lithography *	22 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	36	Intel® Identity Protection Technology (Intel® IPT)	✗
System bus rate	9.6 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	32-bit, 64-bit	Intel Flex Memory Access	✗
Processor boost frequency	3.6 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	45 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	145 W	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.65 - 1.3 V	Intel Demand Based Switching	✓
Bus type	QPI	Intel® Secure Key	✓
Number of QPI links	2	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	68 GB/s	Intel® OS Guard	✓
Memory		Intel Virtualization Technology (VT-x)	✓
Maximum internal memory supported by processor	768 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Operational conditions	
Memory channels *	Quad-channel	Tcase	76.4 °C
ECC	✓	Other features	
Graphics		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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