



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

Brand : HP

Product code: J6F41AV

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	<b>Processor special features</b>	
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	✓
<b>Memory</b>		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	<b>Operational conditions</b>	
Memory channels *	Quad-channel	Tcase	76.4 °C
ECC	✓	<b>Other features</b>	
<b>Graphics</b>		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
On-board graphics card *	✗		
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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