



HP Intel Xeon E5-2697 V2 processor 2.7 GHz 30 MB L3

Brand : HP

Product code: E2Q41AV

Product name : Intel Xeon E5-2697 V2

Intel Xeon E5-2697 V2 (30M Cache, 2.7 GHz) 12-core

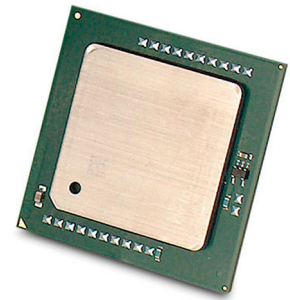
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Intel Virtualization Technology (VT-x)

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 *	E5-2697V2	PCI Express slots version	3.0
Processor base frequency *	2.7 GHz	Supported instruction sets	AVX
Processor family *	Intel® Xeon® E5 V2 Family	Scalability	2S
Processor cores *	12	CPU configuration (max)	2
Processor socket *	LGA 2011 (Socket R)	Embedded options available	✗
Component for	Server/workstation	Processor special features	
Processor lithography *	22 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	24	Intel® Identity Protection Technology (Intel® IPT)	✗
System bus rate	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	32-bit, 64-bit	Intel Flex Memory Access	✗
Processor boost frequency	3.5 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	30 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	130 W	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.65 - 1.30 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)	59.7 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	DDR3-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Operational conditions	
Memory channels *	Quad-channel	Tcase	86 °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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