



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

Brand : HP

Product code: E2Q56AV

Product name : Intel Xeon E5-2697 V2

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

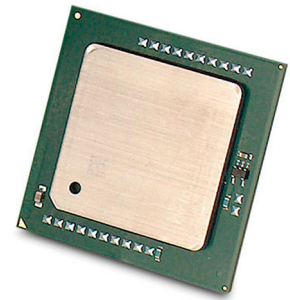
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Intel Virtualization Technology (VT-x)

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® Smart Cache	✓
Processor cache	30 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	L3	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	130 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.30 V	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Number of QPI links	2	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel TSX-NI	✗
Memory		Intel® OS Guard	✓
Maximum internal memory supported by processor	768 GB	Intel Virtualization Technology (VT-x)	✓
Memory types supported by processor	DDR3-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	86 °C
Graphics		Other features	
On-board graphics card *	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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