



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

Brand : HP

Product code: E2Q09AV

Product name : Intel Xeon E5-2697 V2

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

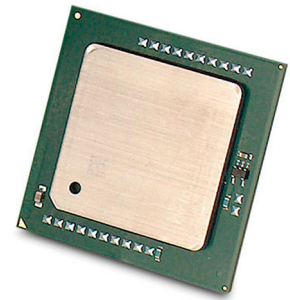
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Intel Virtualization Technology (VT-x)

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	Thermal Monitoring Technologies	✓
Processor base frequency *	2.7 GHz	Market segment	Server
Processor family *	Intel® Xeon® E5 V2 Family	PCI Express slots version	3.0
Processor cores *	12	Supported instruction sets	AVX
Processor socket *	LGA 2011 (Socket R)	Scalability	2S
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	22 nm	Embedded options available	✗
Processor threads	24	Processor special features	
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	32-bit, 64-bit	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor boost frequency	3.5 GHz	Intel Flex Memory Access	✗
Processor cache	30 MB	Intel® Smart Cache	✓
Processor cache type	L3	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	130 W	Enhanced Intel SpeedStep Technology	✓
VID Voltage Range	0.65 - 1.30 V	Intel Trusted Execution Technology	✓
Bus type	QPI	Intel VT-x with Extended Page Tables (EPT)	✓
Number of QPI links	2	Intel Demand Based Switching	✓
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel® Secure Key	✓
Memory		Intel TSX-NI	✗
Maximum internal memory supported by processor	768 GB	Intel® OS Guard	✓
Memory types supported by processor	DDR3-SDRAM	Intel Virtualization Technology (VT-x)	✓
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
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	✓		

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