



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

**Brand :** HP

**Product code:** E2Q25AV

**Product name :** Intel Xeon E5-2697 V2

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

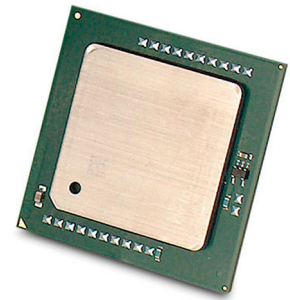
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### Intel Virtualization Technology (VT-x)

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                          | <b>Processor special features</b>                        |            |
| 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                                        | ✓          |
| <b>Memory</b>                                  |                             | 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                | <b>Operational conditions</b>                            |            |
| ECC                                            | ✓                           | Tcase                                                    | 86 °C      |
| <b>Graphics</b>                                |                             | <b>Other features</b>                                    |            |
| On-board graphics card *                       | ✗                           | Intel® Virtualization Technology (Intel® VT)             | VT-d, VT-x |
| <b>Features</b>                                |                             |                                                          |            |
| Execute Disable Bit                            | ✓                           |                                                          |            |
| Idle States                                    | ✓                           |                                                          |            |

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