QuickSpecs

Overview

Intel Xeon E5205/ 1.86 GHz, 6MB L2, 1066 MHz, FSB, 65W	GX566AA
Intel Xeon X5260 /3.33 GHz, 6MB L2, 1333 MHz, FSB, 80W	GX568AA
Intel Xeon X5272/ 3.40 GHz, 6MB L2, 1600 MHz, FSB, 80W	TBD

Introduction

The Dual-Core Intel Xeon Processor 5200 Series employs the use of 45nm technology. Intel's 45nm high-k metal gate silicon technology is the next-generation Intel® Core™ microarchitecture. With roughly twice the density of Intel® 65nm technology, Intel's 45nm packs about double the number of transistors into the same silicon space. That is more than 400 million transistors for dual-core processors. Intel's 45nm technology enables great performance leaps, up to 50-percent larger L2 cache, and new levels of breakthrough energy efficiency. Intel 45nm high-k silicon technology can also deliver more than a 20 percent improvement in transistor switching speed, and reduce transistor gate leakage by over 10 fold.

Dual-Core Intel Xeon Processor 5200 Series supports Enhanced Intel SpeedStep® Technology*. This technology enables the processor to switch between multiple frequency and voltage points, which results in platform power savings.

NOTE: Not all Dual-Core Intel Xeon Processor 5200 Series are capable of supporting Enhanced Intel SpeedStep Technology. When installing two processors, the processors must be identical. Mixing processors with different specifications is not supported. Intel processor numbers are not a measurement of higher performance. Processor numbers differentiate features within each processor family, not across different processor families. See: http://www.intel.com/products/processor_number/ for details. Intel® EM64T requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel EM64T. Processor will not operate (including 32-bit operation) without an Intel EM64T-enabled BIOS. Performance will vary depending on your hardware and software configurations. See: http://www.intel.com/info/em64t for more information including details on which processors support Intel EM64T or consult with your system vendor for more information.

Key Benefits

- Dual-core processing
    - Significantly increases performance headroom over previous generation single core processors
    - Helps boost an operating system's ability to multitask
- 1066, 1333 and 1600 MHz Front Side Bus
- 6 MB shared L2 cache
    - Reduces latency and maximizes the use of main memory-to-processor bandwidth
    - Cache is dynamically allocated between cores, as needed.
- Intel Extended Memory 64 Technology (EM64T)
- Enhanced Halt State (C1E)
- Enhanced Intel SpeedStep Technology
- Virtualization Technology
    - Supports software-based virtualization
    - Enables migration of 64-bit O/Ss and applications to virtual environments
- Smart Memory Access
- Intel Thermal Monitor 2
- Processors dissipate power at 80W or below.

Overview

Compatibility

The Dual-Core Intel Xeon Processors 5200 Series are compatible with HP xw6600 and xw8600 Workstations only.

NOTE: Not all models available in all regions.

Service and Support

The Dual-Core Intel Xeon Processor 5200 Sequence has a one-year limited warranty or the remainder of the warranty of the HP product in which they are installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Certain restrictions and exclusions apply.

Technical Specifications

Processor	Speeds	System Bus Frequency	Cache Type
	E5205 - 1.86 GHz	1066 MHz Front Side Bus	6MB shared L2 cache
	X5260 - 3.33 GHz	1333 MHz Front Side Bus	6MB shared L2 cache
	X5272 - 3.40 GHz	1600 MHz Front Side Bus	6MB shared L2 cache

Maximum Virtual Memory Limited by OS

Single Device Data Correction ECC detects and corrects all single-bit errors. It also detects most Multi-bit errors.

SIMD Extensions Supported SSE2 and SSE3