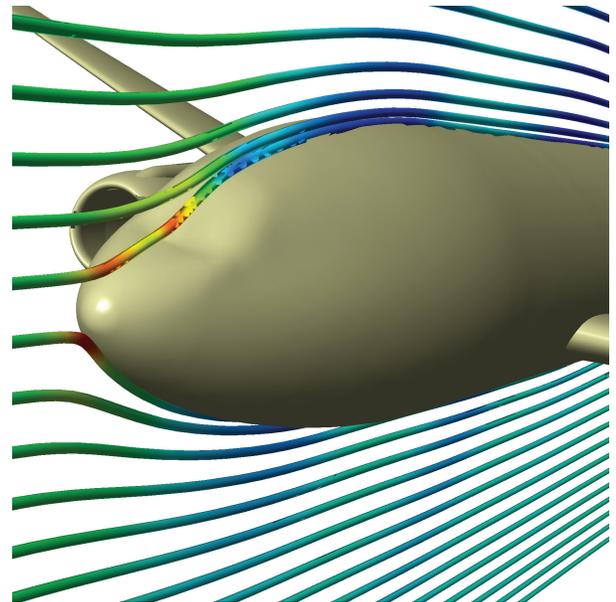


HP AND ANSYS, INC.





## ANSYS, INC.

ANSYS, Inc. designs, develops and delivers broad, modular and integrated engineering simulation solutions for designers and analysts across a broad spectrum of industries. These open and flexible solutions allow customers to simulate design performance directly on the desktop and provide a common platform for efficient, flexible and cost-effective product development—from concept screening to final-stage design verification and testing.

On-screen design simulations using the ANSYS® technology platform help reduce costs and speed time to market by providing designers and engineers with solutions that combine structural, thermal, computational fluid dynamics (CFD), acoustic and electromagnetic simulation capabilities in a virtual and integrated environment.

### ANSYS® Multiphysics™

The company's flagship product is ANSYS Multiphysics, which sets a new standard for CAE analysis and simulation. ANSYS Multiphysics allows users to apply new advanced physics to real-world engineering problems. It also features advances in parallel computing, solver technology, memory management, data handling, integration and ease of use.

### A complete ANSYS solution

Overall, ANSYS helps organizations achieve:

- Innovative and high-quality products and processes
- Fewer physical prototypes and test set-ups
- Reduction in development time
- More flexible and responsive information-based development process
- A front-end simulation strategy that brings products to market faster and at less cost

"HP workstations feature leading floating point performance, large memory and faster graphics so engineers using ANSYS solutions can quickly run simulations right on their desktops."  
Prashant Ambe, VP Operations—MBO ANSYS, Inc.

## HP WORKSTATIONS

HP Personal Workstations feature advanced technologies, world-class design and extensive options so that you can build a solution that suits your needs, while maximizing productivity and value—not to mention helping meet deadlines. From the HP xw4400 to the HP xw9400, HP workstations are tested and finely tuned for ANSYS applications, allowing you to choose a workstation for the way you work.

### HP xw4400 Workstation

The HP xw4400 offers extreme performance at a PC-like price, making it ideal for ANSYS engineers and flexible company-wide deployment. This entry workstation features Intel® Core™ 2 Duo<sup>iii</sup> Processors<sup>xiv</sup> and supports a wide range of professional graphics, memory and storage choices, and quad-core<sup>iii</sup> computing. The HP xw4400 also features dual-channel DDR2-667 MHz memory and PCIe x16 graphics. The price and performance of the HP xw4400 make it an excellent value.

### HP xw6400 Workstation

The HP xw6400 is the choice for the power user who needs dual-processor, dual-core<sup>iii</sup> technology but has limited desk space, needs to maximize power efficiency, and values very quiet operation. The HP xw6400 offers Dual-Core<sup>iii</sup> and Quad-Core<sup>iii</sup> Intel Xeon® Processors,<sup>xiv</sup> supports up to eight monitors, a four-channel 667 MHz Fully-Buffered DIMM (FB-DIMM) memory subsystem, and four PCI Express (PCIe) I/O slots to handle large and complex data sets.

# HP RECOMMENDED CONFIGURATIONS FOR ANSYS



## MAINSTREAM USER

## POWER USER (Intel)

## POWER USER (AMD)

CERTIFIED FOR ANSYS

### HP xw4400 Workstation

Genuine Windows® XP Professional x64 Edition  
 Intel® Core™ 2 Duo™ Processor<sup>iv</sup>  
 2.93 GHz<sup>ii</sup>  
 1066 FSB<sup>v</sup>  
 Windows Vista™ capable<sup>vi</sup>  
 Intel® 975X Express chipset  
 4 GB<sup>v</sup> PC2-5300E DDR2-677 ECC  
 NVIDIA Quadro FX 1500 graphics  
 HP LP2065 flat panel monitor  
 (2) 300 GB<sup>v</sup> SAS hard drive  
 48x CD-RW/DVD-ROM Combo<sup>iii</sup>  
 HP Performance Tuning Framework  
 HP Scroll Mouse

CERTIFIED FOR ANSYS

### HP xw8400 Workstation

Genuine Windows XP Professional x64 Edition  
 Intel Dual-Core™ Intel Xeon Processor<sup>iv</sup> 5100  
 3.0 GHz<sup>ii</sup>  
 1333 FSB<sup>v</sup>  
 Windows Vista capable<sup>vi</sup>  
 Intel 975X Express chipset  
 16<sup>v</sup> GB PC2-5300F  
 DDR2-677 ECC FB-DIMM  
 NVIDIA Quadro FX4500  
 HP LP2335 flat panel monitor  
 (2) 300 GB<sup>v</sup> SAS hard drive  
 48x CD-RW/DVD-ROM Combo<sup>iii</sup>  
 HP Performance Tuning Framework  
 HP Scroll Mouse  
 HP SpacePilot

CERTIFIED FOR ANSYS

### HP xw9400 Workstation

Genuine Windows XP Professional x64 Edition  
 (2) Dual-Core™ AMD Opteron Processor<sup>iv</sup> 2220SE<sup>ii</sup>  
 2.8 GHz<sup>ii</sup>  
 AMD64™ Technology  
 1 GHz AMD HyperTransport™ technology<sup>vii</sup>  
 Windows Vista capable<sup>vi</sup>  
 16<sup>v</sup> GB PC2-5300P  
 DDR2-667 ECC Registered  
 (2) 300 GB<sup>v</sup> SAS hard drives  
 48x CD-RW/DVD-ROM Combo<sup>iii</sup>  
 (2) NVIDIA Quadro FX4500  
 HP LP2465 24-inch flat panel monitor  
 HP Performance Tuning Framework

HP recommends  
 Windows  
 Vista™ Business

## HP xw8400 Workstation

The HP xw8400 is an undeniable force, featuring top-of-the-line Intel Xeon dual-processor, dual-core<sup>iii</sup> and quad-core<sup>iii</sup> performance for excellent design and engineering power. Our highest-performing Intel Xeon processor-based workstation is the choice for engineers who work with demanding computational and visualization applications. The HP xw8400 offers a full range of professional graphics, 64-bit architecture, eight slots for memory expansion.

## HP xw9400 Workstation

There is powerful, and then there is the HP xw9400, which delivers uncompromised graphics performance and maximum expandability with AMD64.<sup>xvi</sup> The HP xw9400 supports up to four 3D graphics displays, dual PCIe x16 graphics and Dual-Core<sup>xvi</sup> AMD Opteron™ processors to meet the combined needs for computational power, visualization power, and I/O performance to help lower the total cost of ownership. It is an excellent choice for high-performance graphics solutions such as parallel rendering or compositing.

## Innovative Design

Remember, all HP workstations feature innovative designs to reduce noise—our workstations are almost whisper quiet—while the industry-leading, tool-less chassis makes them easy to service, upgrade and maintain. After all, a little less stress at work is a very good thing.

Make your work life easier  
 and more productive

## HP Application Competency Center

A key piece of the HP and ANSYS relationship is the Application Competency Center. HP engineers conduct extensive testing to validate entire solutions—hardware, operating system, application, and graphics—that are optimized to run specific ANSYS solutions. A focus on partnership and unprecedented collaboration with ANSYS provides customers with reliable, easy-to-own solutions and breakthrough technology. ANSYS even uses HP workstations to write, develop and test its software applications—one more reason you can be confident when choosing HP.

## HP Remote Graphics Software

HP Remote Graphics Software (RGS) is an advanced utility that allows you to remotely access and share your workstation desktop and all its applications across different platforms, providing you with a “just like local” experience.<sup>vii</sup> Underlying HP RGS is the innovative HP compression technology, that makes remote access to workstations and their multi-display 2D or 3D graphics power a reality. Performance and image quality are outstanding while network usage is kept at a minimum.

## More complete solutions

HP also provides an unmatched array of integrated technology products. These products include the HP SpacePilot, servers, large format printers, HP Tablet PC and storage products.

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Certain Windows Vista product features require advanced or additional hardware. See <http://www.microsoft.com/windowsvista/getready/hardwarereqs.msp> and <http://www.microsoft.com/windowsvista/getready/capable.msp> for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit [www.windowsvista.com/upgradeadvisor](http://www.windowsvista.com/upgradeadvisor).

i Weight will vary by configuration.

ii Intel's numbering is not a measurement of higher performance.

iii Dual-Core and Quad-Core are new technologies designed to improve performance of multithreaded software products and hardware-aware multitasking operating systems and may require appropriate operating system software for full benefit. Not all customers or software applications will necessarily benefit from use of this technology.

iv 1 GB equals 1 billion bytes. Actual formatted capacity is less. Up to 8 GB of hard drive (or system disk) is reserved for the system recovery software.

v Actual bus speed is less. Listed bus speed represents the equivalent effective throughput for data.

vi GHz refers to internal clock speed of the processor. Other factors beside clock speed may impact system and application performance.

vii Performance subject to network speed.

viii Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copy-right protected materials. Intended for creation and storage of your original material and other lawful uses. Double layer discs can store more data than single layer discs. However, double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players. LightScribe creates a monochrome image. LightScribe media required and sold separately.

ix AMD's numbering is not a measurement of clock speed.

x Maximum memory capacities assume 64-bit operating systems. Microsoft Windows XP (32-bit) supports 4 GB (with Microsoft 32-bit, the amount of usable memory will be dependent upon your system configuration. It may be less than 4 GB); 32-bit Linux can support up to 8 GB.

xi This system may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows Vista functionality. Check [www.windowsvista.com/getready](http://www.windowsvista.com/getready) for details.

xii Actual speeds may vary.

xiii Hardware RAID is not supported on Linux Systems. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit <http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf> for RAID capabilities with Linux.

xiv 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See [www.intel.com/info/em64t](http://www.intel.com/info/em64t) for more information.

xv Above 3 GB, all memory may not be available due to system resource requirements.

xvi This system requires a separately purchased 64-bit operating system and 64-bit software products to take advantage of the 64-bit processing capabilities of Dual-Core AMD Opteron technology. Dual-core processing available with AMD Opteron technology is a recent technology innovation designed to improve performance of this system. Given the wide range of software applications available, performance of a system including a 64-bit operating system and a dual-core processor will vary.

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