

HP Performance Tuning Framework



HP recommends Microsoft® Windows® XP Professional

The HP Performance Tuning Framework enables IT professionals and individual users to more easily configure HP Personal Workstations, based on Intel® Pentium® 4 or Xeon™ processors, for stability and best performance.

Today's workstations are composed of an vast number of hardware and software component combinations, operating systems, and applications. The enormous number of possibilities can make system setup a difficult task. To reduce the complexities, systems were typically set up the same way regardless of individual user requirements.

The HP Performance Tuning Framework guides system setup, allowing a "custom" configuration that best matches the workstation to the user's requirements. The Framework provides a consolidated report of the workstation hardware and software configuration, and then allows you to select other system tuning opportunities. HP's goal is to increase your overall productivity on HP Personal Workstations.

Features:

- **Intuitive user interface:** The Framework employs a Windows-based interface designed to expose workstation and application tuning opportunities through simple, one-click controls.
- **Detailed configuration report:** After interrogating the system's hardware and software configuration, the results are organized and presented. The report can be printed or saved for future reference.
- **Graphics driver selection:** The HP Performance Tuning Framework organizes graphics driver certification information, helping you or the administrator make an informed decision about which driver to load.

- **OS tuning controls:** The Framework provides the ability to configure various performance, security, and user-interface settings of the Microsoft® Windows® XP operating system.
- **Large memory enablement:** Some applications have been tested with a feature of Windows XP that allows programs to utilize up to 3 GB of system memory. The Framework verifies that the necessary components are installed, and then makes the configuration changes required to enable this mode of operation for both Windows XP and the desired application.
- **Exclusive HyperTune technology:** This feature, available only for HP workstations, works to optimize the graphics performance of certain applications. Through in-depth knowledge of these applications, our engineers have discovered ways to analyze and tune system graphics settings for optimal performance and stability.
- **Application-specific configuration:** In addition to the HyperTune modules, the Framework contains a collection of application-specific configuration pages that deliver knowledge and experience derived from HP's long history of intimate involvement with the third-party application development teams.
- **Dynamic Framework updates:** As new application certifications are completed, new tuning features are introduced, and new technical applications become support, the Framework will update itself and its database over the internet.
- **Absolutely no charge:** The HP Performance Tuning Framework ships with all Intel Pentium and Xeon processor-based HP personal workstations. It can also be downloaded at no charge from: www.hp.com/go/framework.

A simple, easy-to-use utility to customize your workstation performance



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System requirements

Hardware systems	HP xw3100 Workstation, HP xw4000 Workstation, HP xw4100 Workstation, HP xw4200 Workstation, HP xw5000 Workstation, HP xw6000 Workstation, HP xw6200 Workstation, HP xw8000 Workstation, HP xw8200 Workstation, HP xw9300 Workstation, HP Mobile Workstation nw8000, HP Mobile Workstation nw8240
Operating system	Microsoft® Windows® 2000 Professional; Microsoft Windows XP Professional
Memory	Specified by operating system and target application per workstation
Graphics	ATI Fire GL 8700; ATI Fire GL 8800; ATI Fire GL X1; ATI FireGL Z1; ATI FireGL T2-64s; ATI Fire GL T2-128; ATI Fire GL T2; NVIDIA Quadro2 MXR; NVIDIA Quadro2 EX; NVIDIA Quadro2 Pro; NVIDIA Quadro4 NVS; Quadro 280 NVS (PCI & PCI-E), NVIDIA Quadro4 380 XGL; NVIDIA Quadro FX 330; NVIDIA Quadro4 550 XGL; NVIDIA Quadro FX 540; NVIDIA Quadro4 580 XGL; NVIDIA Quadro4 750 XGL; ATI FireGL V3100; NVIDIA Quadro4 900 XGL; NVIDIA Quadro4 980 XGL; NVIDIA Quadro FX 500; NVIDIA Quadro FX 1000; NVIDIA Quadro FX 1100; NVIDIA Quadro FX 1300; ATI FireGL V5100; NVIDIA Quadro FX 2000; NVIDIA Quadro FX 3000; 3DLabs Wildcat III 6110; 3DLabs Wildcat III 6210; NVIDIA Quadro FX 3400
Supported 3Dconnexion controllers	USB SpaceTraveler, USB Spaceball 5000
Disk space	40 MB consumed by Framework installation
Networking	Standard TCP/IP

Specifications and features

Certification database	HP maintains an application certification database providing a complete list of HP certified configurations for each application.
3D graphics driver selection and installation	The Framework queries HP's certification database via the network and guides the users in installing the most appropriate graphics driver for their applications.
Dynamic update	Updates the Framework application: The Framework has the ability to query the online database and update itself if a newer version exists. Updates graphics and configuration database: Each time the Framework is started, it compares its local database version of the database with the one on the HP Framework server. It automatically updates the local database if there is a newer one available.
Additional capabilities	Large application memory enablement and tuning: Application memory tuning makes more of the computer's virtual memory available to applications by making less virtual memory available to the operating system and some applications can use this feature to address more than the 2 GB normally allocated to each application process. Autodesk Inventor 7.0 and up, Bentley MicroStation, CoCreate OneSpace Designer, Dassault Systèmes CATIA V5, PTC Pro/ENGINEER, Solidworks SolidWorks, UGS Solid Edge, and UGS Unigraphics can support the use of 3 GB of memory with Microsoft Windows XP. The framework also provides hints on Intel HyperThreading Technology ¹ by application. The Framework has the ability to check the Windows XP installation for proper components and then makes the necessary modifications to the system's boot entries to enable large application memory usage.
HP HyperTune Technology	Greatly simplifies the setup, configuration, and performance of HP Personal Workstations. Developed to assist users and IT professionals in tuning their combined application and HP workstation platforms for productivity, HyperTune is available for UGS Unigraphics and Dassault Systèmes CATIA V5
Supported applications	Autodesk Inventor 6.0, 7.0, 8.0, 9; Dassault Systèmes CATIA V5; Discreet 3D Studio Max 5 & 6; PTC Pro/ENGINEER 2001, PTC Pro/ENGINEER Wildfire, PTC Pro/ENGINEER Wildfire 2; Solidworks SolidWorks 2003, 2004, & 2005; UGS Unigraphics 18, UGS Unigraphics NX1, NX2, & NX3; UGS I-DEAS 9, 10, & 11 NX Series; UGS Solid Edge 14, 15, & 16; CoCreate OneSpace Designer 2004; Bentley MicroStation V8; Autodesk AutoCAD 2005; Alias Maya 5 & 6; Alias StudioTools 11

¹ Hyper-Threading (HT) Technology requires a computer system with an Intel Pentium processor supporting HT Technology and an HT Technology enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. See <http://www.intel.com/info/hyperthreading/> for more information including details on which processors support HT Technology.

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