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Windows Performance Tools (WPT) is a set of performance analysis tools introduced in Windows Server 2008 that are targeted for development, hardware, device and driver manufacturers, and system builders. They work with the perftools.h performance trace capture component and provide a graphical user interface tool to analyze the performance traces. Each tool in the kit is a new form of high-performance performance analysis tools for Microsoft Windows operating system and is specially designed to meet the needs of each of these various communities. All tools in the WPT kit are completely redesigned for Windows Vista and later and specifically addressed to each community. WPT consists of tools like: 1) Xperf 2) XperfView 3) Xbootmgr 4) WPA Each tool is a small self-contained component with well-defined interfaces, and all the components have been extracted to a new Windows SDK structure. By using this kit, you no longer need to install the full WPT kit or add an dependency on the perftools.h trace capture component in your applications. In other words, if you use one of the WPT components, you do not need to install any WPT tools. Xperf: Xperf is the performance analysis framework provided by WPT. It is designed to be used by developers, hardware and device manufacturers, and system builders for analyzing and tuning the performance of Windows operating systems, Windows applications, and hardware/device drivers. Xperf can record and playback trace files in a variety of formats and allows you to extract useful information from the captured traces for analysis. Xperf provides a flexible framework for recording and tracing, a set of performance analysis tools, and an automated performance gating infrastructures (PGI). Xperf can also be used for scripting, which allows users to create their own customized xperf scripts, or test their own application on new or legacy operating systems. Xperf is based on the perftools.h component and works with perftools.ini or perftools.cpp file that are part of the tools. With this component, you can capture application performance traces from Windows Vista and later and Xperf can read it and analyze it from a command line. For more information about Xperf, please refer to the following documentation or API reference: Windows SDK Performance Tools Xperf Trace Capture Tool Overview: This tool captures trace logs to an ETL trace file and enables you to view the captured trace data using

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The WPT Kit contains three tools: xperf, xperfview, and xbootmgr. xperf is a command-line program designed to facilitate Windows performance analysis. It provides a mechanism for capturing the execution of an operation on a computer and recording this operation in an ETW trace file. The xperf tools can trace application or system level code. They support capturing in single, multithreaded, and multi-process modes. Analysis can be performed on the saved trace file using either xperf or xperfview. xperfview is a command-line program designed to enable inspection of an ETW trace file. The program provides basic views of the captured trace, such as the operation

name, thread ID, and frame number. A filter can be applied to select a subset of the events in the trace that can be inspected. A series of actions can be performed on each event in the selected subset of events. The actions are completely application-defined and can be specified either by the user or by making use of a configuration file. xbootmgr is a command-line program designed to record a boot trace of kernel and I/O activities in a Windows operating system. Prerequisites: Before starting to use the Windows Performance Tools, you will need to perform several tasks. The SDK for Windows Vista, Windows Server 2008, and.NET Framework 3.5 is required. You will need to be able to create.ETL trace files. For information on how to create.ETL trace files, see xperfforge.com. For further information on the.ETL format, including how to view.ETL trace files, see Controlling the ETL Trace Filename Generation Process. You will need the ability to generate, manipulate, and view Intel Processor Trace (ITrace) files. For information on generating Intel ITrace files, see Supporting Intel Processor Trace Files. You will also need to be able to run and analyze xperf trace files. For information on how to do that, see Using Intel xperf. Windows Performance Tools Kit Command-Line Requirements: The tools use some command-line parameters that are described in this table. Table 1 Command Line Parameters for xperf Name Description Command Parameter Values □config File Required Use a configuration file to configure tracing parameters that are specific to a particular trace. The file is created and stored with the trace file. The file b7e8fdf5c8

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xperf provides an application-level trace capture system, based on a lightweight API, similar to libtraceevent. If the targetted application supports tracing, the xperf utility will enable and capture the corresponding traces. The trace records are then shipped to an ETL trace file format. ETW (Event Tracing for Windows) is an event tracing infrastructure first introduced by Microsoft in Windows Vista. The core idea of ETW is that each event has a timestamp, a source, a trace message, and a user context. Essentially, ETW records all user events generated by the operating system or userspace applications. An event can be system-initiated or application-initiated. On Windows Vista and later, a new set of event trace infrastructure was introduced, and the name was changed to WPT. WPT is an infrastructure that is built on top of ETW to support performance monitoring and analysis. WPT defines a trace file format called ETL (or ETW Trace Log) that is a binary format similar to the text-based ETW trace log. WPT provides a way to create and save trace records in the binary format. Trace records are also potentially interesting to other researchers. The ETW infrastructure allows a user to trace any user event. This includes system-initiated events such as function entry. Applications can also initiate custom tracing if a callback is specified. This is useful for applying the tool for applications that are not yet supported by the current trace infrastructure. Applications can also be traced by user-mode or kernel-mode DLLs. The ETL trace recording process operates in a time-based fashion, and the recorded events are not ordered. Thus, the trace files are unsuitable for direct comparison against another trace file to find potential problems. However, the features of ETW make the trace files suitable for use as a starting point for analysis. This can happen in a variety of ways, depending on the requirements. For instance, the files can be provided to a performance testing tool to find issues in the run-time. They can also be provided to an automatic analysis tool to perform a set of automatic tests against the data collected in the trace file. XPerf was developed as a fast, lightweight application-level tool for capturing per-process traces. XPerf enables the capture of events, such as simple counters and call stacks, for tracing specific processes. With the introduction of Windows Vista, a new tracing infrastructure was created for Windows Vista and later

What's New in the Performance Tools Kit?

The WPT Kit contains the performance analysis tools described above as well as a set of tools to automate the performance testing of traces. These tools are new to the.NET Framework 3.5 Platforms and are intended for use by.NET Framework 3.5 developers, hardware manufacturers, application developers, as well as system builders. These tools are designed to help with the analysis of a wide range of performance problems including application startup times, system responsiveness, interrupts, and deferred procedure calls. The Microsoft.NET Framework 3.5 SDKs provide this functionality as well as sample and documentation. The Windows Performance Tools are a set of tools

that are new to the Windows SDK for Windows Server 2008 and.NET Framework 3.5. These tools are useful to a broad audience, including system builders, hardware manufacturers, driver developers, and general application developers. The WPT Kit is designed for performance testing of both the kernel and managed code and is intended to analyze, diagnose, and improve the performance of.NET Framework applications and managed code libraries. It comes with the.NET Framework 3.5 Platforms SDKs. The tools have the same functionality as the Microsoft.NET Framework 3.5 SDK, but were specifically developed for the.NET Framework 3.5 platform. You can use the same WPT tools on Windows Vista as you use on Windows Server 2008. The MSIs available in the Kit are a Windows Vista WPT MSI. They should be installed in the WPTKit directory in the.NET Framework SDK version 3.5. Note that the WPT MSI package should be installed in your Windows SDK installation directory (e.g. C:\Program Files\Microsoft SDKs\Windows\v6.0A). The WPT Tools are configured by using the Performance Tools Kit MSI. By default, Windows Vista and Windows Server 2008 are available in this installation. You can add the other Windows operating systems (Windows 7, Windows Server 2008 R2, Windows Server 2012, and Windows Server 2012 R2), Windows 8 (or later), or other Windows operating systems (Windows Server 2003, Windows XP, etc) by running the installation script again. The script will run as an administrator in an elevated command prompt on Windows Vista and Windows Server 2008. All of the tools are available as executables from the WPTKit directory: License and Reciprocal Support: The WPT Kit is available on its own or in a package with the Windows Performance Studio. Both options allow you to download the

System Requirements:

- OS: Windows 2000 Service Pack 3 / Windows XP Service Pack 2 or higher - Processor: Pentium III 600 MHz or higher - Memory: 512 MB of RAM - Graphics: 256 MB of video memory - DirectX Version: 8.0 - Hard Drive: 2 GB free space - Screen Resolution: 1024 x 768 pixels - Internet Connection: Exclusive Features: - HD Video: The entire game will be presented in high-definition video. - Difficulty:The game can be