

Overview

HPE Application Tuner Express

HPE Application Tuner Express optimizes application performance by loading data into memory close to the processor executing the computing instruction.

The optimization reduces delay introduced when data gets stored in remote memory on other processors in the system. This software accelerator delivers Non-Uniform Memory Access (NUMA) awareness to the application without having to change the application code. There is more performance benefit realized on larger socket count servers.

Application Tuner Express optimizes processor loading and NUMA distances per application.

Choose between 5 different launch policies to find the optimal policy for your application.

Other NUMA tools restrict core choices per application, HPE Application Tuner Express intelligently and optimally distributes your application among nodes.

Application Tuner express has shown demonstrable benefit for database (OLTP), data warehouse (OLAP), SAP ERP and Apache SPARK workloads.

“The bigger the box, the better the benefit”

What's New

- This introductory release of Application Tuner express optimizes Linux® application performance by loading data into memory close to the processor executing the computing instruction on multi-processor x86 based systems. The optimization reduces delays introduced when data gets stored in remote memory on other processors in the system. This software accelerator delivers Non-Uniform Memory Access (NUMA) awareness to applications without having to change the application code at all. There is more performance benefit realized on larger socket count servers.
- Benefits include:
 - Exclusive offering for use on all Hewlett Packard Enterprise branded scale-up x86 Linux servers.
 - Customizable to your application with five different launch policies
 - Non-intrusive application launch design means the only change is the application start command

Models

Licensing and Media Options	HPE Application Tuner Express x86 1yr Support PSL LTU	Q6Q75AC
	HPE Application Tuner Express x86 2-4 Sockets PSL LTU	Q6Q75AC#001
	HPE Application Tuner Express x86 8+ Sockets PSL LTU	Q6Q75AC#002
	HPE Application Tuner Express x86 1yr Support PSL E-LTU	Q6Q76ACE
	HPE Application Tuner Express x86 2-4 Sockets PSL E-LTU	Q6Q76ACE#001
	HPE Application Tuner Express x86 8+ Sockets PSL E-LTU	Q6Q76ACE#002

Notes: These are per socket licenses and each socket in the server needs to be licensed.

Overview

Distribution Media and Software Documentation HPE Application Tuner Express software and documentation are available on the HPE Software Depot where Hewlett Packard Enterprise offers a 60-day trial kit.
<https://h20392.www2.hpe.com/portal/swdepot/index.do?lc=en>

Licenses can be purchased from HPE and convert the 60 day free trail into a fully supported kit without requiring application downtime.

Benefits:

- The HPE Application Tuner Express performance improvement can reduce the needed cores to be licensed for applications.
- Scale-up large application to meet increased demand without having to scale-out your application.
- Consolidate workloads and reduce power and cooling costs.

Examples:

- Internal testing has up to 60% scale-up database improvement.
[1] <https://buy.hpe.com/us/en/enterprise-solutions/storage-solutions/resource-management/application-tuner-express/hpe-application-tuner-express/p/1009955667>
- Internal testing has up to 60% scale-up database consolidation improvement
[2] HPE internal testing. Performance results with HPE-ATX (patent pending) on the Superdome X with Gen9 were achieved with one tenant totaling 144 users (4P), two tenants totaling 288 users (8P) and four tenants totaling 576 users (16P) for a 1-to-1 mapping of users to logical CPUs. Configurations that are over-subscribed may show less performance gain. Results as of April 6, 2016.
- Internal testing showed 30% performance gain on Apache® SPARK. [2]
[3] Results from an 8-node machine-learning cluster of 2-socket servers (8 nPars on a 16-socket Superdome X system) running the PageRank ML Benchmark with OpenJDK 8, RHEL 7.3. Results obtained on March 17, 2017 in Ft. Collins, CO

Supported Product

Operating System Support Supported on RHEL 6.5 and all follow-on RHEL 6 releases, RHEL 7.0 and all follow-on RHEL 7 releases, SLES 11sp3 and all follow-on SLES 11 releases, SLES 12 and all follow-on SLES 12 releases.

Hardware Requirements HPE Application Tuner express is exclusively supported on all HPE x86 Linux servers

Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

<https://www.hpe.com/services>

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

<https://www.hpe.com/services/consulting>

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

[HPE Managed Services | HPE](#)

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

<https://www.hpe.com/services/operational>

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:

<https://www.hpe.com/services/lifecycle>

For a list of the most frequently purchased services using service credits, see the [HPE Service Credits Menu](#)

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

<https://www.hpe.com/services/training>

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at <https://ssc.hpe.com/portal/site/ssc/>

Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpsc/public/home/signin>

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

For more information

<http://www.hpe.com/services>

Environment-friendly Products and Approach

End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

For more information, please visit

<https://promotions.ext.hpe.com/WMCF.Web/us/en/page/ProgramGroups/> or contact your Hewlett Packard Enterprise sales representative.

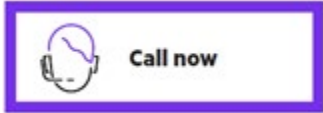
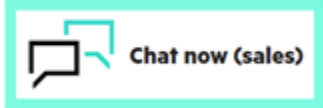
The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: <http://www.hpe.com/info/recycle>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HEWLETT PACKARD ENTERPRISE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
04-Dec-2023	Version 2	Changed	Service and Support section was updated
17-Jun-2017	Version 1	Created	New QuickSpecs

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