



Hewlett Packard Enterprise

Dynamically tune server performance to match your workloads

Intelligent System Tuning



Meet your needs to

- Achieve peak server performance while also driving down costs
- Tune servers to match the requirements of workloads
- Gain greater control of your server environment
- Enhance server agility

Run on industry-leading platforms

- HPE ProLiant Gen10 Servers
- Intel® processors
- HPE Integrated Lights Out (iLO 5)

Deploy one unique solution with revolutionary capabilities

- **Workload Matching**
Tune BIOS settings with preconfigured server profiles that match your workload
- **Jitter Smoothing**
Mitigate frequency fluctuations for deterministic performance, reduced latency, and improved workload throughput
- **Core Boosting**
Maximize the performance of all of the cores in your processors for significant savings

Automatically match server resources with Workload Matching

Workload Matching

10+ preconfigured workload profiles

- General power efficient compute
- General peak frequency compute
- Virtualization—Maximum performance
- Virtualization—Power efficient
- General throughput compute
- High performance compute
- Transactional application database
- Graphic processing
- Decision support
- I/O throughput
- Mission-critical
- Low latency
- Custom

- Take the “guesswork” out of tuning BIOS settings
- Save hours of server tuning by selecting preconfigured workload profiles¹
- Leverage the experience of the HPE Performance Engineering Team

Bottom line
Workload Matching can help users realize significant time saving and improve overall server performance

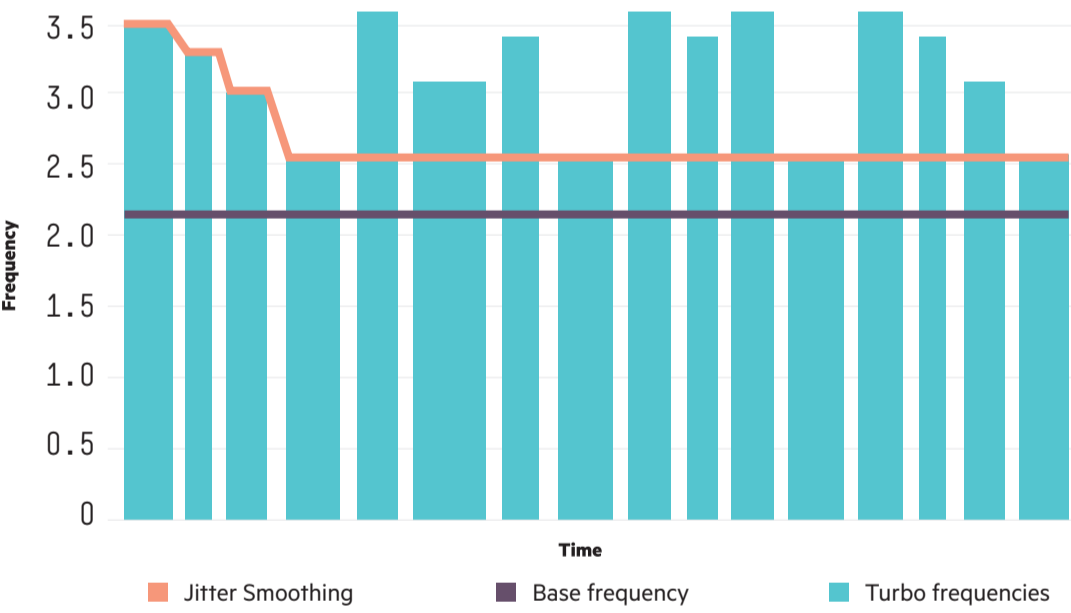
¹ Actual time-saving results may vary with workload and level of expertise.

Reduce latency with Jitter Smoothing

Jitter Smoothing

2.2 GHz processor

Jitter Smoothing in Turbo Boost mode



- Jitter Smoothing reduces frequency shifts while in Intel Turbo Boost mode
- HPE patent-pending technology
- Provides more deterministic and reliable performance
- Increases throughput in select workloads

Bottom line
Jitter Smoothing improves Intel processor frequency by up to 12% over base with low latency and deterministic processor performance²

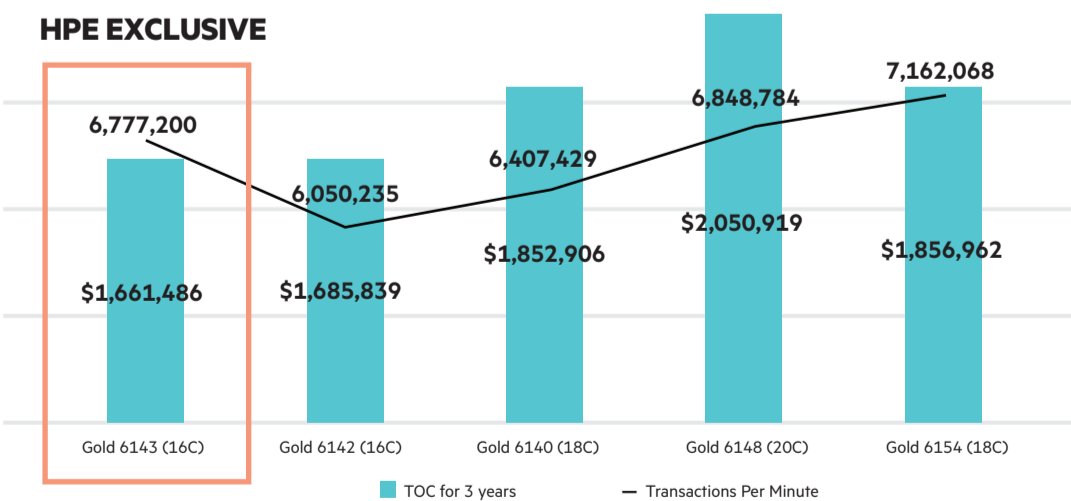
² HPE Internal testing from Performance Engineering Benchmarking team, April 2017.

Maximize application performance with Core Boosting

Core Boosting³

Ideal for virtualized environments, high performance compute, and database workloads

Gen10 ProLiant DL380 with 2 processor per server



- Core Boosting enables higher performance across more processor cores
- Works **without overclocking** (maintain Intel warranty and reliability)
- Lower application licensing costs for core-based licensing models

Bottom line
Core Boosting can improve server performance and lower licensing costs

Save up to \$200k or 10% on total cost of ownership over three years⁴

³ Core Boosting feature is available on select Gen10 server platforms when paired with select Intel processors. See your HPE representative for more information.

⁴ Comparing the Intel Xeon Scalable 6143 16-core processor to standard roadmap 18 core processor. HPE Internal ODB testing, May 2018. Costs include unit pricing, increased energy spend, database licenses, partitioning, and support for 3 years.

Learn more at hpe.com/info/ist