

Why Z by HP?

Al Practitioners spend 80-90% of their time on data processing & preparation. This labor intensive period is where Z by HP provides the greatest contribution to data science through GPU processing.

Z by HP allows for data scientists to maximize their workflow output and move from analyzing data in hours and cycles to milliseconds per click.

Optimized Performance for Data Science

- High-level solution with the power needed to increase speed and efficiency.
- The ability to do data preparation, cleaning, exploration, visualization, modelling, training and testing all on one, local, secure device.
- Increased responsiveness when doing data exploration. Freely interact with your data and create business insights more frequently.

Benefits of Z

Z by HP data science workstation is now available as a preconfigured solution specifically to tackle data science. Fully integrated with NVIDIA Quadro RTX GPUs and accelerated CUDA-X AI data science software¹ providing a seamless deployment experience out of the box. Compared to mainstream CPU solutions, a Z by HP data science desktop workstation is 10x faster with huge performance gains² allowing for between 2 billion and 5 billion database row output-depending on configuration³.

Z by HP data science workstations deliver a highperformance, enterprise-class solution that dramatically boosts productivity, speeds up time to insight, and helps lower the cost of data science projects. Breakeven with a Z by HP Z4 data science workstation configuration vs. cloud server implementation in as little as 8 months⁴. Have confidence in your data science investment with a secure, expandable solution that is ready to go where your data takes you.

Z by HP Data Science Recommended Configurations

HP Z4 G4

2 to 3BN rows in minutes vs. hours

Perfect for engineering, visualization,

RAPIDS Recommendations:

- Intel® Xeon® 6C CPU 128-256 GB RAM
- 1 TB HP Z Turbo drive
- 2 TB HP Z Turbo data drive (optional)
- Ubuntu 18.04 or RHEL 7.5
- 1000-Watt Power Supply

HP Z8 G4

4 to 5BN rows in minutes vs. hours

Ideal for running complex simulation, ML and processing huge amounts of data.

RAPIDS Recommendations:

- Dual NVIDIA RTX 8000 GPU + NVLink
- Dual Intel® Xeon® 8C CPU
- 192-512 GB RAM
- 1 TB HP Z Turbo drive
- 2 TB HP Z Turbo data drive (optional)
- Ubuntu 18.04 or RHEL 7.5
- 1450-Watt Power Supply

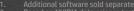
HP ZBook 17 G6

500MN to 1BN rows in minutes vs. hours

The ultimate choice when an AI/ML developer or data scientist needs a mobile workstation.

RAPIDS Recommendations:

- NVIDIA RTX 5000 (16GB)
- 64GB DDR4 2666 RAM
- 512 GB PCLe NVMe SSD + 1 TB SATA
- Ubuntu 18.04 or RHEL 7.5
- 200-Watt Power Supply



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 e testing of end-to-end test time, US Mortgage data set years 2015-2016. Using Intel Gold 6140 @ 2.3GHz, 3.7GHz turbo, 2 sockets, 72 threads, 384GB RAM, Ubuntu
 8000s, driver version 410.93. Intel Gold 6140 CPU, 72 threads end-to-end task time: 528.34, dual Quadro RTX 8000 end-to-end task time: 53.56. Dual Quadro RTX 8000
- off of HP internal analysis of cloud on demand pricing over 7.6 months at \$3.06/hr representing 1 GPU, 24/7 use compared to a HP 24 data science workstation with CPU W-2123, 64GB RAM, NVIDIA Quadro RTX 8000 GPU. Configuration, cloud pricing and options, and other factors are subject to change and will affect your breakeven point.
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