



5 MINUTE BRIEFING: Data Integration

December 18, 2007

Netezza Doubles Performance Through Addition to FAST Engines Framework

DBTA **5** MINUTE BRIEFING: Data Integration

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NEED TO KNOW

Netezza Doubles Performance Through Addition to FAST Engines Framework

Netezza Corp. has announced the addition of a Compress Engine that doubles the performance of its enterprise-class streaming analytic appliance. The improvement is achieved through a patent-pending algorithm that increases performance while decreasing data footprint. This performance gain follows the announcement earlier this year of Release 4 of its Netezza Performance Server (NPS) appliance, which delivered a doubling of performance through software, with no increase in price, hardware footprint or power and cooling requirements.

“Release 4 was the software release that we announced at the end of the summer. That is the current version that is out in the product, and deployed among a lot of our customers. That was a doubling of performance without any hardware changes or any kind of a need to upgrade in any way from a hardware perspective,” Ellen Rubin, vice president of marketing at Netezza, told 5 Minute Briefing. With this announcement, the company is announcing the Compress Engine, which will be coming out in May 2008, as a feature in the NPS product family “to enable a doubling of performance and also a more efficient use of data space and storage,” she noted.

Netezza's streaming architecture is built on the FPGA-Accelerated Streaming Technology (FAST) Engines framework, which consists of several analytic functions that are programmed and customized at run-time in the FPGA to deliver performance advantages and enhanced capabilities for the NPS system. With the Compress Engine, Netezza adds its latest FAST Engine to the framework, doubling query performance through a software enhancement to the NPS appliance. Employing a patent-pending method for compiling columnar data in all tables of the database, the NPS system will be able to compress the data to use disk

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much more effectively and greatly increase query performance as data streams from the disk.

As data is loaded, inserted or updated into the NPS appliance it is automatically compressed into a compiled format, column-by-column, with the original data replaced by the Compress Engine "instruction set" for decompilation. Then, as this data is read from the disk during query operations, the Compress Engine reads its instruction set and reassembles the original data as it streams from the disk, effectively doubling the streaming data rate. For more information, go [here](#).

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