NETEZZA
The Power to Question Everything™

FEATURES AND BENEFITS

KEY FEATURES

- Terascale data warehouse streaming analytic appliance (DBMS software, system hardware, high-speed storage)
- Asymmetric Massively Parallel Processing™ (AMPP™) architecture - Best combination of SMP and MPP for terascale, complex query processing
- Patented streaming design - Query functions and management implemented in silicon, data streaming at the disk level
- Integrated (appliance) package
- Industry-standard interfaces (SQL, ODBC, JDBC, OLE DB)
- Full compatibility with market-leading BI tools, applications and infrastructure

KEY BENEFITS

- **PERFORMANCE**
  10-100x the performance of existing data warehouse solutions
- **ITERATIVE, REAL-TIME ANALYTICS**
  Enabling ad hoc queries and complex analytics with terabytes of data
- **AFFORDABILITY**
  Low acquisition and ongoing administration and maintenance costs, including expensive DBA time
- **MANAGEABILITY / EASE-OF-USE**
  Appliance packaging and pre-tuning limit systems and database administration needs (less than one DBA for ongoing administration)
- **SCALABILITY**
  From a few hundred GB to 3 TB
- **LOW POWER, COOLING & SPACE CONSUMPTION**
  High performance in a compact footprint
- **STRUCTURAL RELIABILITY**
  Advanced mirroring techniques ensure reliability (Atomic/Consistent/Isolated/Durable transaction management with RAID and hardware mirroring)

The Netezza Performance Server® System 5000 Series

An economical alternative for high-performance terascale data warehousing

The Netezza Performance Server (NPS®) analytic appliance architecturally integrates server, storage and database in one easy-to-use system. The NPS 5000 Series systems are half-rack versions of the enterprise-class NPS family of data warehouse and analytic appliances and are designed to handle terascale analyses of your data, cost-effectively, both in an out of your data center.

Designed for high-performance analyses on data sizes ranging from several hundred gigabytes up to three terabytes, the NPS 5000 Series is an economical data warehouse alternative for medium-sized businesses that can't afford the high cost of traditional options. Systems within the NPS 5000 Series include:

NPS 5200dc (The Data Center Model), designed for an enterprise data center, does not include an Uninterruptible Power Supply (UPS), so it seamlessly integrates with the electrical infrastructure of the enterprise-class data center.

NPS 5200oa (The Office Area Model), a single globally-deployable application and operational-equivalent version of the NPS 5200dc model, is designed to fit in environments other than data centers, e.g. copy-room, telecom cabinet, etc.

Software functionality

High-Performance SQL Engine — Optimizes SQL on the NPS system's massively parallel processing architecture

Database Operating System — Executes highly efficient SQL through intelligent distribution across host and storage-side processing

Fast Loading/Unloading — Allows new data to be added rapidly (up to 350 GB/hour) so that ongoing processing can work with real-time data. Integrates externally with leading ETL and EAI tools. Supports "trickle feed" real-time data loading concurrent with query processing.

Administration Tools — Includes DBA and Systems Management tools that provide easy-to-use GUIs & CLIs for permissions, monitoring, diagnostics, trouble-shooting and other administrative functions

Industry compatibility

- Supports full ANSI transactions
- ANSI SQL-92 compatibility and SQL-99 analytics extensions
- ODBC, JDBC and OLE DB Type 4 API compliant
- AIX, HP-UX, Linux, Solaris and Windows operating systems
- Integrates with leading BI and ETL platforms

Hardware components

Host —The host is a high-performance Linux SMP server that maintains database catalogs, generates optimized query plans, coordinates execution on the SPUs and aggregates the query results generated by the SPUs. Applications and end users access the data stored on SPU disks indirectly, by communicating with the NPS host.

Snippet Processing Unit (SPU) —The SPU is a query processing node that consists of a disk drive and a special-purpose computer for accelerating record management and analysis. Information stored in an NPS system is distributed across many SPUs, so that queries can be processed faster in an MPP environment. The SPU is the smallest replaceable unit of storage and computation.

Communication Network — Host-to-SPU and SPU-to-SPU communication is provided by an internal high-bandwidth network of industry-standard gigabit Ethernet switches.

Hardware	5200dc	5200oa
Total SPUs (Query Processing Nodes)	28	28
User Data (max.)	3 TB	3 TB
Physical Cabinet Specifications		
Height	31.5″ / 800 mm	31.5″ / 800 mm
Width	24″ / 610 mm	24″ / 610 mm
Depth	38″ / 970 mm	38″ / 970 mm
Weight	400 lbs / 182 kg	450 lbs / 205 kg
Operating Temperature	50F to 95F / 10C to 35C	50F to 95F / 10C to 35C
Cooling Requirements	4,800 BTU/hour	4,800 BTU/hour
Power Requirements and Connectors	*(System does not include built-in UPS)* North America: Two outlets – 208V AC, 50/60 Hz, 16A NEMA L6-20P Japan: Two outlets – 200V AC, 50/60 Hz, 16A NEMA L6-20P UK/EU/elsewhere: Two outlets – 230V AC, 50/60 Hz, 16A IEC60309 6H	*(System includes built-in UPS)* North America: One outlet – 120V AC, 50/60 Hz, 20A NEMA L5-20R or NEMA 5-20R UK: One outlet – 208-230V AC, 50/60 Hz, 13A BS1363A or IEC60309 6H International: One outlet – 208-230V AC, 50/60 Hz, 16A CEE 7/EU1-16 or IEC60309 6H Australia: 230V AC, 50/60 Hz, 16A AUZ-15P/AS3112-1981 or IEC60309 6H Japan: 100V AC, 50/60 Hz, 20A NEMA L5-20R or NEMA 5-20R

Services

- Site preparation guidelines
- System installation
- 7x24 web-based services *(Knowledge base, FAQ, call logging)*
- Major software feature upgrades
- Software patches and maintenance releases
- Global Netezza/HP support *(Available 7x24 4hr response)*
- On-site critical spares
- Service Level Agreement Options *(Standard, Business Critical and Partner Support)*

Safety & Emissions	*(For both 5200dc & 5200ao)*
Approved for sale in the US and Canada	CSA, FCC part 15, ICES-003 Issue 4
Approved for sale to the entire European Union	CE marking, EN 60950-1 EN 55022, EN 55024
Approved for sale in Japan	VCCI approval
Approved for sale in Australia	C-Tick marking and emissions and safety testing

Software

Operating System	Red Hat Linux Advanced Server 4.0
Supported APIs	SQL, ODBC 2.5/3.0/3.5, Type 4 JDBC V 2.0/3.0, OLE DB
SQL Standards	SQL-92 compliant, with SQL-99 extensions
High-Speed Load/Unload	High-speed interoperability with ETL and EAI tools at rates as high as 350 GB/hour
Backup & Recovery	Interoperable with Legato (EMC²), Tivoli (IBM) and Veritas
Database Portability	Portability from IBM DB2, Informix, Microsoft SQL Server, MySQL, Oracle, Red Brick, Sybase IQ, Teradata,
Additional Tools	Windows and web-based DBAdmin GUI; CLI and high-speed loading/unloading for AIX, HP-UX, Linux, Solaris and Windows
Third-Party Applications	***Data Integration Platforms*** — Ab Initio, Ascential, Business Objects, Informatica, Oracle ***Business Intelligence Platforms*** — Actuate, Business Objects, Cognos, Hyperion, IBI, MicroStrategy, Oracle, SAS, SPSS ***Packaged Solutions*** — 10e Solutions, QuantiSense, SAP, Unica ***Packaged Solutions*** — Symantec Veritas NetBackup
Host-Based Hardware	Supports Ethernet and SAN connectivity

About Netezza

Netezza (NYSE Arca: NZ) is the global leader in data warehouse and analytic appliances that dramatically simplify high-performance analytics for business users across the extended enterprise, delivering significant competitive and operational advantage in today's information-intensive marketplaces. The Netezza Performance Server® (NPS®) family of streaming analytic™ appliances brings appliance simplicity to a broad range of complex data warehouse and analytic challenges. Customers who are realizing the benefits of Netezza appliances include Ahold, Amazon.com, CNET Networks, Debenhams, Department of Veterans Affairs, Epsilon, Neiman Marcus, Orange UK, Premier, Inc., Ross Stores, Ryder System, Inc., The Carphone Warehouse, the US Army and Virgin Media. Based in Marlborough, Mass., Netezza has offices in Washington, DC, the United Kingdom and Asia Pacific. **For more information about Netezza, please visit www.netezza.com.**

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