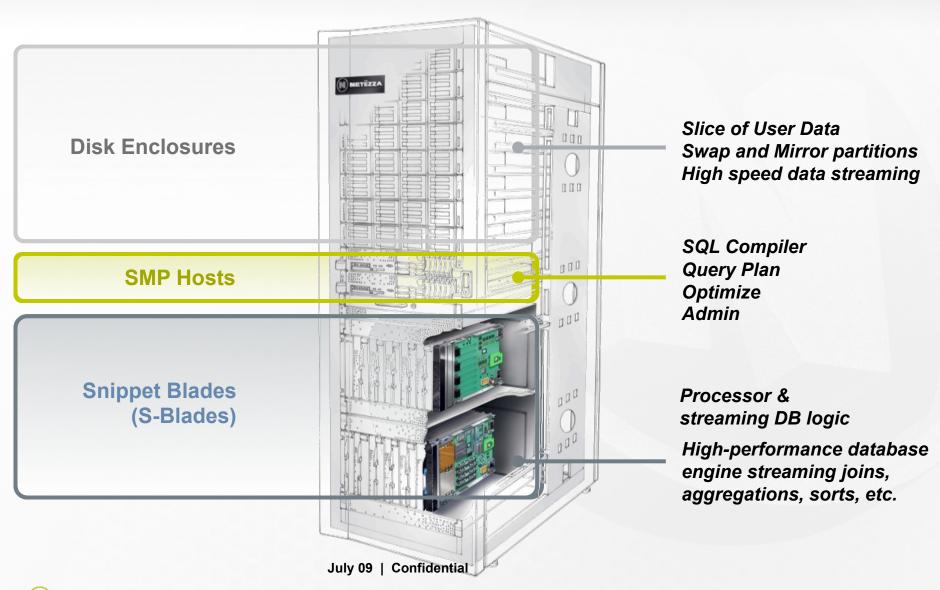
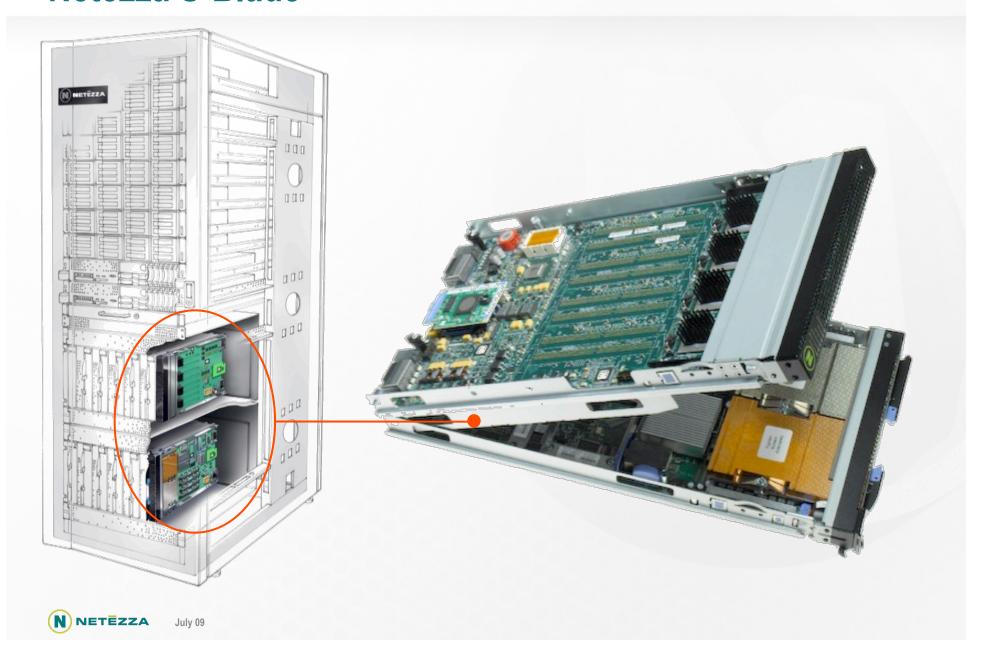
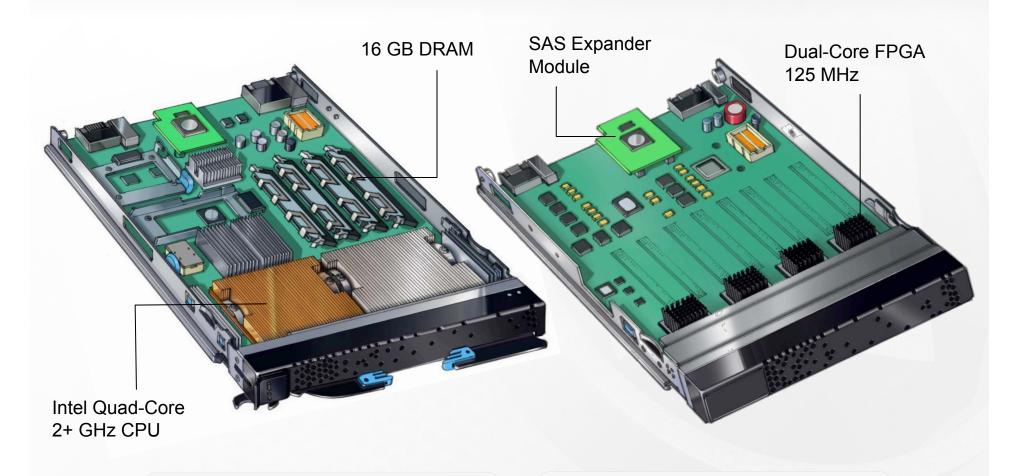
Netezza High Performance System



Netezza S-Blade



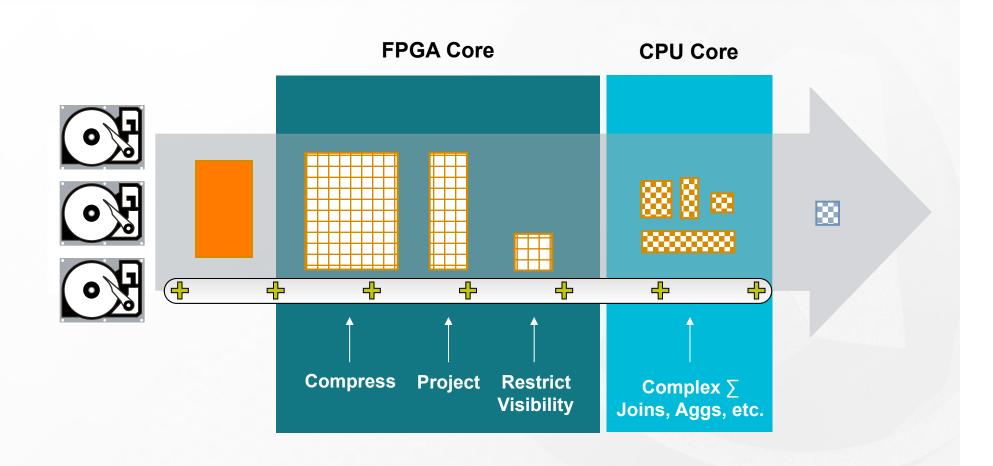
Netezza S-Blade



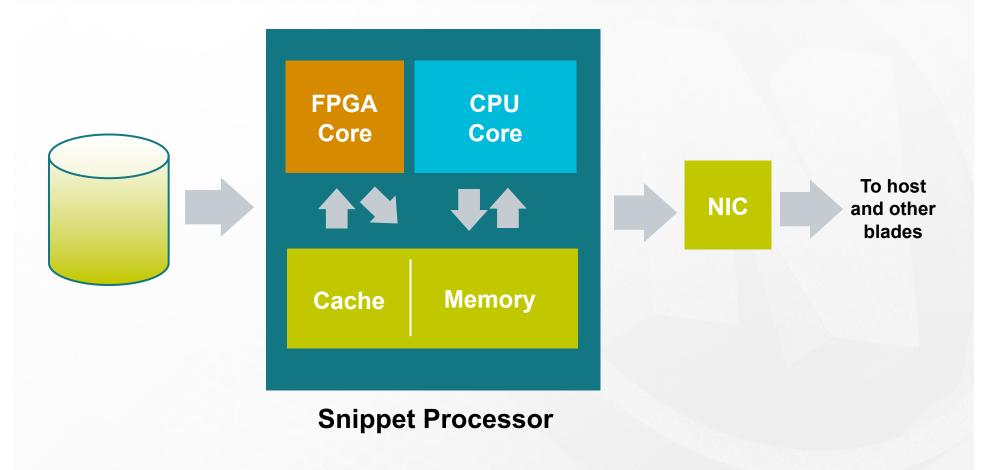
IBM BladeCenter Server

Netezza DB Accelerator

Data Stream Processing

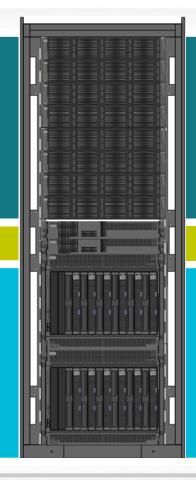


Snippet Processing – FPGA Co-Processor



8 Snippet Processors per S-Blade

"New Product" Single-Rack Specification*



- 8 Disk Enclosures
- 96 1TB SAS Drives (4 hot spares)
- RAID 1 Mirroring
- 2 Hosts (Active-Passive):
- 2 Quad-Core Intel 2.6 GHz CPUs
- 7x146 GB SAS Drives
- Red Hat Linux 5 64-bit
- 12 Netezza S-Blades:
- 2 Intel Quad-Core 2+ GHz CPUs
- 4 Dual-Engine 125 MHz FPGAs
- 16 GB DDR2 RAM
- Linux 64-bit Kernel

* For multi-rack P-Series systems: one host is included in each of the first two racks

• User Data Capacity: 128 TB**

Data Scan Speed: 145 TB/hr**

Load Speed (per system): 2+ TB/hr

Power Requirements: 7.6 kW

Cooling Requirements: 7.8 kW

Key Initial Performance Enhancers

Individual Hardware Components:

 CPU and memory speed 	8X
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Overall System Features:

• SP Table Cache (compressed) 1.25 – 2.5X

"New Product" vs. NPS 10000 Series Performance

Performance improvement by type of workload

Strategic	Operational	Compute Intensive	Bulk Data Movement	Data Maintenance
3-5X	2-3X	10X	2.5X	3X

Customer results will vary depending on data and workload Performance comparison on a per-rack basis

Mixed workload performance improvement: 3-5X