RYFT

Powering Complex Analytics Applications

Making data analytics fast and simple across cloud, hybrid and datacenters environments with simple-to-use heterogeneous compute

Ryft's Suite of **Accelerators Deploy in Minutes** While Leveraging Your Existing Data Analytics Ecosystem

Ryft Cloud

ACCELERATE DATA DISCOVERY WITH VIRTUAL INSTANCES ON DEMAND

- Ryft-enabled cloud instance for AWS F1 offering
  - Dramatically speed analysis over x86-based cloud instances
  - Fast, simple execution of complex analysis including edit and hamming distance searches
  - Advanced search functionality including regular expressions, etc.
  - Requires no data transformation and indexing
- Accelerate existing BI tools and cluster technologies
  - Open API
  - Connectors
  - Library of Analytics Algorithms

Ryft ONE

STREAMLINES AND ACCELERATES ANY BIG DATA ECOSYSTEM

- Compact 1U rack-mountable accelerator form factor
  - 12-48 TB of All-Flash SSD storage
  - 3.2+M IOPS per node
  - Encryption & Decompression with no performance loss
  - 1/10/40 GbE & 56Gb/s FDR InfiniBand network interfaces
  - NAS protocols including NFSv4
  - Ultra high efficiency at less than 750 watts
- 100 node Ryft Cluster delivers
  - Single file system & global namespace
  - 200+ GB/second throughput
  - 4.8 PB storage in only 2.5 racks

Ryft ONE+

SUPERCHARGES IN-MEMORY COMPUTE BIG DATA APPLICATIONS

- Compact 2U rack-mountable accelerator form factor
  - 24 – 96 x86 cores coupled with FPGA-accelerated compute
  - 512 GB to 4 TB of host-side x86 RAM
  - 12-48 TB of All-Flash SSD storage
  - Encryption & Decompression with no performance loss
  - 1/10/40 GbE, 56Gb/s FDR InfiniBand network interfaces
  - High efficiency at less than 1750 watts
- 100 Node Ryft ONE+ Cluster
  - Single file system & global namespace
  - 4.8 PB storage in 5 racks
  - 200+ GB/second throughput

The Power of **Ryft + Data Analytics Applications**

Data Visualization (Tableau)

Analyze structured and unstructured data together in near real-time—with **no transformation or indexing,** enabling complex analysis like edit distance searches with **no added latency**

Search (Elasticsearch)

Dramatically speed Elasticsearch performance by 100X or more, and expand edit distance and hamming fuzzy search capabilities to improve results accuracy

In-Memory Database (SAP HANA)

Exponentially increase performance of HANA for faster, more actionable insights with Ryft's patented memory storage architecture

Geospatial (Google Earth)

Rapidly integrate geospatial-based data sets—including social media feeds—at a fraction of current infrastructure requirements, removing reliance on relational or NoSQL databases

SQL (Microsoft)

Fast, simple data discovery for more actionably insights using SQL queries on non-standard unstructured and semi-structured data with no data transformation or indexing requirements

Log Analysis (Splunk, ELK)

Eliminate lengthy ingest times by thinning logs in seconds for ingest into traditional logging analysis tools

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Powering HPC Analytics Applications with Ryft Accelerators