



Data Sheet

# Actian Analytics Database-Vector

## Accelerate Business Intelligence

Actian is revolutionizing Big Data analytics with Actian Vector, the industry's price-performance leader among analytics database solutions. Extreme performance is achieved on commodity hardware, with little to no database tuning. With Actian Vector, analytics are more accessible to Business Intelligence (BI) users, data aggregators and providers, social media and online gaming developers, and others who need answers fast.

### Key Benefits

#### Extreme Performance

Run complex queries against billions of records in just seconds

#### Extreme Scalability

Deploy BI projects faster without risky, complex, and costly data warehouse projects

#### Extreme Value

Half the cores, one-quarter of the cost, twice the performance of traditional solutions

### Deliver Faster Reporting and Analytics

**Deliver faster insight** – reduce response times, for ad hoc queries, from hours to just seconds

**Analyze more data faster** – look at enterprise data combined with big data streaming from apps and devices

**Support more concurrent users** – let more BI users explore more data faster

**More complex analytic workloads** – work with behavioral data, try new techniques like micro-segmentation and precision target marketing

### Record-Breaking Analytic Performance

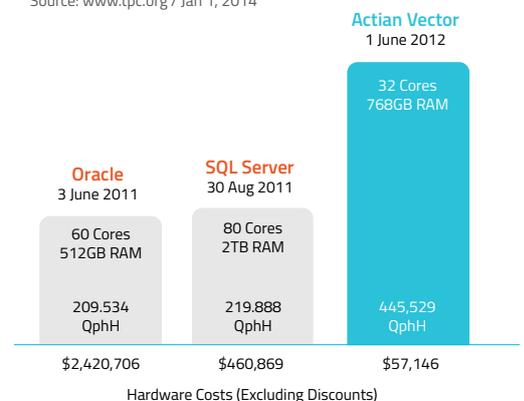
Actian Vector leverages patent-pending vector processing technology to unlock hidden performance features in your existing hardware. In terms of performance, value, and energy efficiency, Actian Vector has surpassed industry benchmarks by the largest margins ever recorded.

### Spend less on infrastructure and BI support

With the rise of Big Data 2.0, it is more important than ever to reduce the complexity, time, and cost of IT maintenance for BI projects. Actian Vector lets you scale analytics and maintain high performance with fewer cores and less RAM than traditional solutions require. Focus on extending more analytics capabilities and value to your business instead.

### Fastest TPC-H Benchmark

QphH@1TB non-cluster  
Source: www.tpc.org / Jan 1, 2014



## Generational Leap in Analytics Performance

Action Vector is ideal for BI, reporting, and analysis because it accelerates time to insight. Vector is designed from the ground up to remove the performance bottlenecks so often encountered when using relational databases. Rather than burdening database administrators with extensive or ongoing database tuning, performance is achieved by unlocking features already available in modern CPUs.

**Vector processing** – a patent-pending Actian technology whereby a single instruction can be performed across data sets

**Column-based storage** – disk I/O is minimized by accessing only relevant data

**On-chip cache computing** – data processing on chip cache is 100x faster than in RAM

**Smarter compression** – compression is performed inside the CPU for maximum throughput

**Parallel execution** – data is processed in parallel using any number of CPU cores

## Make Big Data Analytics Faster and Easier

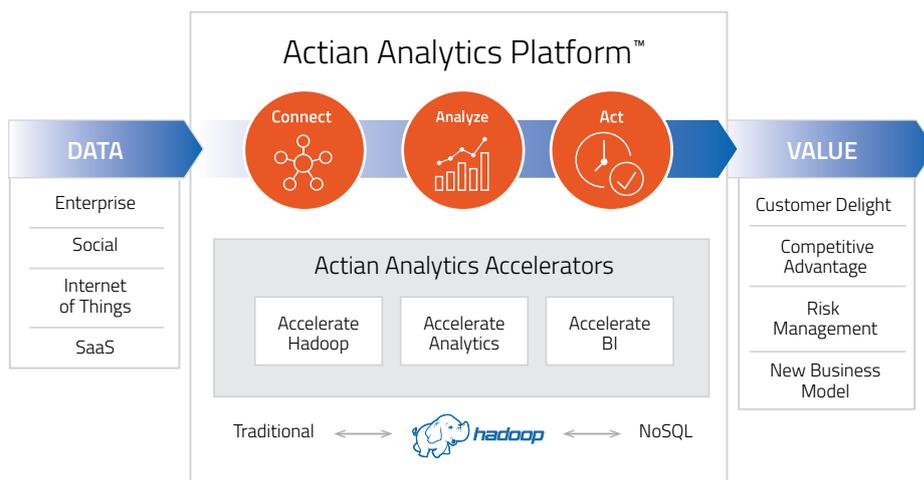
Deploy analytics projects faster while eliminating the risk and cost typical of complex data warehouse projects. Vector makes performance fast, so you can get started sooner without the need for OLAP cubes, schemas, and complex builds of aggregations. Give users faster and deeper insight and reduce analytic workloads.

## Take Action on Big Data

Action Vector is available for Linux and Windows, and getting started is easy. Connect using JDBC, ODBC, .NET, or the Vector bulk loader. Connect to your preferred BI front-end application and query your data using industry standard SQL.

## Turn Hadoop into Highest Performing SQL Engine

Action is revolutionizing big data analytics with Action Vector in Hadoop, the world's fastest, most enterprise-grade massively parallel processing (MPP) SQL query engine built to run natively in Hadoop. Don't be fooled by imitators who claim native SQL in Hadoop support—most have immature SQL support or require you to move the data out of Hadoop. Only Action Vector combines the most modern, scalable, high-performing database technology with the power of Hadoop, thereby enabling users to directly query data stored in HDFS.



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