Sybase IQ for IBM Power Systems Solution

Enterprise Scalability

The Sybase® IQ for IBM Power Systems™ Solution provides an enterprise-quality business analytics platform designed to complement existing data warehouse platforms to significantly improve the performance of analytical and reporting applications. It features Sybase IQ, a highly scalable analytical engine. This solution helps clients analyze increasing amounts of data by delivering ad hoc query performance up to 100 times faster than traditional RDBMSs while reducing overhead, storage costs and maintenance requirements.[1]

Unprecedented growth in data—and the number of people demanding access to data—is placing significant strain on corporate operational systems. As competition becomes more intense, the need to improve data

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Highlights

- **Accelerates query processing, reporting and analysis of business transaction information**

- **Designed to reduce overhead, storage costs and maintenance requirements for analytical and reporting applications**

- **Offers near-linear user and data scalability to support thousands of users and terabytes of data**

- **Complements existing enterprise data warehouses (EDWs) with ultra-high-speed analytics and reporting**

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access and accelerate business analysis becomes more acute. The computing resources required to support query-intensive analytics are very different than those put in place to manage transaction-oriented business operations.

At a time when increased competition calls for quick answers—with an accuracy that requires larger amounts of data—Business Intelligence (BI) systems are challenged by:

- *More data. The amount of data that organizations must manage is growing rapidly, with IDC forecasting a CAGR of almost 60% through 2011.[2] New regulations force companies to store more historical data and, more importantly, maintain online access to data for longer periods of time.*
- *More demand. Intelligence-driven decisions are becoming more prevalent, and decision support tools are becoming more broadly used. This results in more users asking for more reports and requiring better ad hoc query support.*
- *More complex queries. The natural outcome of more users, with a greater need-to-know and broader access to reporting tools is more sophisticated "what if" scenarios and more frequent reporting needs.*

All of which can lead to over-burdened operational or data warehouse systems with slower performance and higher costs. Slow response times for processing the events and transactions that drive a business have a direct impact on revenues, productivity and customer satisfaction. Slow results for queries or reports are simply unacceptable.

The Sybase IQ for IBM Power Systems Solution is designed to optimize performance and reduce costs of analytics and reporting systems. IBM Power Systems servers offer a flexible, scalable and reliable platform for query-intensive workloads running on both the AIX®—the industrial strength UNIX® from IBM—and Linux® operating systems. In addition, Sybase and IBM get clients up to speed quickly,

through services to integrate Sybase IQ on Power Systems servers into current data management and data warehouse environments.

Sybase IQ offers unique advantages for analytical and reporting applications
Sybase IQ combines faster query response times and faster data loads with reduced overhead, storage costs and maintenance requirements. Some of the unique benefits of Sybase IQ are:

- *Faster—Delivers ad hoc query performance up to 100 times faster than a traditional RDBMS.[1]*
- *Lower storage costs—Requires less storage by compressing raw data to save up to 70%[1], while traditional OLTP databases explode data by 150 - 500%.[3]*
- *Easier—Easier to maintain for analytical functions than traditional databases and does not require time—and resource-intensive tuning to obtain excellent performance.[1]*
- *Highly scalable—Offers near-linear user and data scalability to support thousands of users and terabytes of data.[1]*

Enterprise scalability with IBM Power Systems servers

IBM Power Systems servers support user needs across a broad range of applications, including transaction processing, Web publishing, data mining, systems management and others. This family of 1- to 64-core IBM POWER™ processor-based systems is designed to provide outstanding performance, availability, scalability and dynamic resource allocation. Unique IBM virtualization features allow users to process more information on a single server, creating the potential to save on total cost of system ownership, as well as space and energy costs.

Enterprise quality solutions

A growing number of businesses are now using the Linux operating system as a way to further consolidate costs. As acknowledged leaders in Linux,

Sybase and IBM deliver the expertise and solutions to meet the growing needs of clients:

- *IBM engineers participate in open source development*
- *Linux operating-system-based platforms from IBM offer a wide range of solutions to help clients optimize deployments, including POWER processor-based servers, Intel® processor-based servers and IBM mainframe systems*
- *IBM and IBM business partners provide comprehensive services and support for Linux*
- *Sybase was first to deliver an enterprise-class DBMS on Linux in 1999 and today provides a comprehensive combination of products and services supporting Linux*

The Sybase IQ for IBM Power Systems Solution supports SUSE Linux Enterprise Server 10 for POWER (SLES10) and Red Hat Enterprise Linux 5 for POWER (RHEL5).

The IBM and Sybase sales support teams can help translate particular query, reporting and analysis requirements into specific IBM Power Systems server configurations that can support desired ranges of concurrent users, transaction data and response times.

Accelerating Business Intelligence—for less

The Sybase IQ for IBM Power Systems Solution dramatically accelerates query, reporting and analysis of business transaction information to help clients make intelligent business decisions quickly. Sybase IQ for IBM Power Systems Solution is a scalable, high performance, low TCO business analytics solution that utilizes the processing capabilities of the IBM Power Architecture® technology-based servers to provide exceptional performance. It complements existing transactional database systems by offloading query and reporting and enabling near-real-time business decisions.
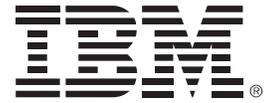
For more information

To learn more about the Sybase IQ for IBM Power Systems Solution, please contact your IBM marketing representative or Sybase, or visit the following Web sites:

- IBM Solutions: **ibm.com**/systems/p/solutions
- Sybase IQ for IBM Power Systems: www.sybase.com/ibm or call 1-(800)-8SYBASE
- IBM Linux on POWER: **ibm.com**/systems/p/linux/
- IBM Power Systems: **ibm.com**/systems/p/hardware/index.html

This equipment is subject to FCC rules. It will comply with the appropriate FCC rules before final delivery to the buyer. Information concerning non-IBM products was obtained from the suppliers of these products or other public sources. Questions on the capabilities of the non-IBM products should be addressed with the suppliers.

All performance information was determined in a controlled environment. Actual results may vary. Performance information is provided "AS IS" and no warranties or guarantees are expressed or implied by IBM. Buyers should consult other sources of information, including system benchmarks, to evaluate the performance of a system they are considering buying.

When referring to storage capacity, 1 TB equals total GB divided by 1000; accessible capacity may be less.

[1] Bloor Research Report - Sybase IQ, December 2006 –www.sybase.com/content/1035804/SybaseIQ-12.7-010407-wp.pdf Winter Corporation TopTen Program –www.sybase.com/content/1032408/WinterCorporation2004.pdf Spotlight on Sybase IQ, 2004; InfoSizing DW Reference Architecture Report, June 2004 –www.sybase.com/content/1031462/InfosizingBenchmarkReport_June2004.pdf

[2] IDC, World Disk Storage Systems 2007 – 2011 Forecast: Mature, but Still Growing and Changing, May 2007 http://www.idc.com/getdoc.jsp?containerId=206662

[3] http://www.dbms2.com/2006/09/28/expansion-ratio-data-warehouse-explosion/ http://www.dmreview.com/dmdirect/20031031/7636-1.html

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