

THE WORLD'S LARGEST DATA WAREHOUSE

ENTERPRISE DATA WAREHOUSE REFERENCE ARCHITECTURE

QUOTE SHEET

The World's Largest Data Warehouse Next-Generation Technology Available Today

In response to the new realities of the current business environment, Sun and Sybase have joined forces to develop the Enterprise Datawarehouse Reference Architecture. The Reference Architecture addresses the need for simplicity, flexibility, scalability, manageability and investment protection.

Francois Raab, president of InfoSizing, Inc., an independent auditor who audits all TPC-H and other tests, has recently verified the world's largest data warehouse. The testing was conducted at Sun Microsystems' iForcesm Ready Center in Menlo Park, CA, USA on the Enterprise Data Warehouse Reference Architecture, a completely implemented solution based on Sun and Sybase products.

The tests were executed on a real world, fully functioning data warehouse based on open industry standards and commercially available systems, and not an artificially constructed benchmark or a research project.

The input data volume of 48.2 TB was compressed into 22 TB of storage compared to conventional implementations which explode data as much as 8X. The disk/input to data ratio is 0.46x, compared to 5x to 23x for conventional DBMS models. This Enterprise Data Warehouse Reference Architecture puts this solution in a very competitive position with conventional implementations which require large amounts of storage due to the data explosion required by their architectures and technologies. The data volume for this test is 16x larger than the largest industry standard benchmark.

Quotes

"The Enterprise Data Warehouse Reference Architecture, based on Sun systems and storage and Sybase Adaptive Server IQ Multiplex, has demonstrated several significant achievements: 48.2 terabytes of raw input data (179 billion rows) stored in a realistic data warehouse schema using only 22 terabytes of total storage (data compression of 0.46)." said Francois Raab, President, InfoSizing. "This is the largest

database demonstrated and verified to date. Furthermore, query performance scaled to more than 94% with multiple server nodes; and, data loading slowed down minimally (less than 7%) while concurrent queries were being run at the same time."

Francois Raab, President, InfoSizing

"It's almost universally true that the larger an enterprise data warehouse, the more important and time-critical the demands for actionable information from that warehouse. Enterprise IT executives are constantly challenged to tame very large data warehouses and to extract from them business value that justifies their often daunting costs and complexities. The jointly developed Sun/Sybase Enterprise Data Warehouse Reference Architecture allows IT executives to transform mountains of unwieldy data into 'The Incredible Shrinking Data Warehouse,' significantly reducing costs of ownership and operation while increasing return on investment and business benefits."

Michael Dortch, Principal Analyst, Robert Frances Group

"Sybase and Sun have developed a data warehouse solution that effectively addresses the challenges that accompany increasing amounts of data – performance, flexibility and total cost-of-ownership. With a combination of compression and sophisticated access technique, Sybase/Sun allow companies to expand their data warehouses and manage large amounts of data, while decreasing the costs of storing this information. The potential cost savings, coupled with performance benefits, address key concerns of companies that aim to implement large-scale data warehouses."

Richard Winter, President, Winter Corporation

"Sun and Sybase have not only pushed the limits of this technology, but they have done so with a realistic application and a system well within the reach of their customers. These demonstrations, which are probably only the beginning, open up a family of technologies on a scale that many businesses may not have previously considered. Sun and Sybase have created a remarkable off the shelf solution. The competitive advantages provided by very large database are no longer restricted to the largest organizations."

Jeff Sexton, Systems Architect, ODS Health Plans

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"The big advantages of the Reference Architecture work, done by Sun and Sybase, is that it provides the advance knowledge that this solution will work. It also demonstrates the critical aspects of ease of deployment, performance, scalability, and storage cost economy. The proof-of-concept demonstration put together in Sun's iForce Ready Center gave us the ability to see for ourselves how effective the Sybase-Sun solution would be for our company. Reference Architectures are a real boon to IT managers who are considering solutions for a specific business problem. For us, it has further validated our choice of Sybase IQ running on Sun servers for this project."

Kim Ross, CIO, Nielsen Media Research

"The Sun/Sybase partnership represents a significant third player in VLDB along with Teradata and IBM. Sun's storage and server advantages along with Sybase IQ Multiplex's database advantages represents a good fit for this market."

Wayne Eckerson, The Data Warehousing Institute

"Data warehousing is an exercise in tradeoffs. To take one example, the sheer size of the data warehouse – the terabytes of disk space it consumes – often impacts the speed at which the data can be refreshed and analyzed. By improving analytical speed while saving disk space, Sybase and Sun have demonstrated technical acumen that increases business value. Using the Sun/Sybase Enterprise Data Warehousing Reference Architecture, their customers can now not only save money through lower cost of ownership, but can also tackle very large analytical problems. Put simply, their customers are getting more analysis for less money – a winning combination."

Guy Creese, Aberdeen Group

"The Sybase and Sun data warehouse reference architecture offers unique value to companies looking to build a high-end data warehouse by making data warehouse projects much less risky. Given that these projects often cost millions of dollars in hardware, software and consulting, this is a major benefit. The reference architecture reduces risk because it provides a proven blueprint to build upon, and it reduces cost because it saves on storage requirements as well as design and implementation time."

David McGoveran, Alternative Technologies



Complete Life Cycle Management

The Reference Architecture Life Cycle Management Program addresses the entire customer experience from proof-of-concepts to systems/software implementation to managed services that address the individual customer environment. It incorporates all the necessary steps and elements for long-term customer success and lower overall TCO.

Contact your local Sun or Sybase sales rep for further info.
URLs: <http://www.sybase.com/sunarchitecture>,
<http://www.sun.com/architectures-platforms/refarch/edw/>



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