



Microsoft® SQL Server® 2008

SQL Server® Fast Track Data Warehouse 2.0 for IBM® System x® and IBM System Storage™



Accelerate your data warehouse roadmap with new Fast Track Data Warehouse configurations jointly reviewed by IBM and Microsoft for optimal SQL Server 2008 Enterprise performance. Reduce costs, save time and reduce risk with reliable hardware and best practices for data warehousing.

KEY FEATURES

- Accelerate your data warehouse roadmap with hardware configurations ready to support SQL Server 2008
- Virtually eliminate hardware testing and reduce tuning with better data warehouse performance out of the box
- Scale from 4 up to 32 terabytes using compression capabilities in SQL Server 2008 Enterprise
- Enjoy a lower cost of ownership through better price performance, rapid deployment and industry-standard hardware
- IBM® System x® servers with Intel® Xeon® processors provide the right performance for your needs:
 - IBM System x3650 M2
 - IBM System x3850 M2
 - IBM System x3950 M2
- IBM System Storage® DS3400 cost-effectively consolidates storage and matches IT investment to information value
- Configurations jointly reviewed by IBM and Microsoft for optimal data warehouse performance

Scale up your data warehouse on SQL Server 2008 Enterprise with SQL Server Fast Track Data Warehouse 2.0 for IBM System x servers. Reduce your data warehousing costs while leveraging improved out-of-the-box performance.

The IBM reference configurations for SQL Server Fast Track Data Warehouse bring together the right mix of technology and software, integrating the powerful IBM System x server line, robust IBM System Storage and the data warehouse capabilities of SQL Server 2008 Enterprise Edition.

A SQL Server Fast Track Data Warehouse for IBM System x offering consists of:

- IBM servers, storage and networking specifically balanced and optimized for warehousing
- SQL Server 2008 Enterprise for a scalable enterprise data warehouse platform

FASTER TIME TO VALUE

Deploy a high-performance warehouse faster. Fast Track Data Warehouse for IBM System x configurations can save you months of hardware selection, configuration, setup, testing and tuning.

- Buy all the hardware you need from just one vendor – servers, storage and networking
- Speed up creation or migration of data warehouses
- Build, tune and deploy with confidence using established data warehouse best practices

ENTERPRISE DATA WAREHOUSING AT LOW COST

Fast Track Data Warehouse solutions for IBM System x enable you to build the right enterprise data warehouse at low cost, thanks to SQL Server 2008 Enterprise and industry-standard hardware.

- Select from different levels of performance, scalability and price to suit specific business needs
- Choose from configurations with 8, 24 or 32 Intel Xeon processor cores

RAISING THE BAR ON PERFORMANCE AND SCALABILITY

Fast Track Data Warehouse customers enjoy better performance out of the box with less effort because solutions are optimized for data warehousing.

- Targeting query workloads accessing large data sets sequentially rather than small random data transactions
- Optimized rapid data reads and query aggregations help eliminate bottlenecks

POWERED BY IBM SYSTEM X AND IBM SYSTEM STORAGE

The reference configurations are built on three IBM System x server platforms with Intel Xeon processors, each targeting a different SQL Server data warehouse solution tier.

LOOKING AHEAD

Fast Track Data Warehouses offer a solid roadmap to large-scale enterprise data warehousing on SQL Server. Data warehouses built on Fast Track configurations today can be fully integrated SMP

SQL Server Fast Track Data Warehouse configurations from IBM		
Basic (4-8 TB)	Standard (12-24 TB)	Advanced (16-32 TB)
<ul style="list-style-type: none"> • System x3650 M2 • (2) Intel Xeon X5550 (4C, 2.66GHz) processors, 8 cores total • 32 GB (8x4 GB) 1333 MHz Dual-Ranked DIMMs • (2) System Storage DS3400, 11 300 GB HDDs on each • 1400 MB/s tested throughput 	<ul style="list-style-type: none"> • System x3850 M2 • (4) Intel Xeon X7460 (6C, 2.66GHz) processors, 24 cores total • 96 GB (24x4 GB) 667 MHz DIMMs • (6) System Storage DS3400, 11 300 GB HDDs on each • (1) System Storage EXP3000 for tempdb • 3500 MB/s tested throughput 	<ul style="list-style-type: none"> • (2) System x3950 M2 • (8) Intel Xeon L7445 (4C, 2.13 GHz) processors, 32 cores total • 128 GB (32x4 GB) 667 MHz DIMMs • (8) System Storage DS3400, 11 300 GB HDDs on each • (1) System Storage EXP3000 for tempdb • 4800 MB/s tested throughput
Optional additional System Storage EXP3000 for Max Capacity configuration		
<ul style="list-style-type: none"> • (2) System Storage EXP3000, 10 HDDs on each 	<ul style="list-style-type: none"> • (6) System Storage EXP3000, 10 HDDs on each 	<ul style="list-style-type: none"> • (8) System Storage EXP3000, 10 HDDs on each

“spokes” in a hub-and-spoke architecture. As your data grows to hundreds of terabytes, your Fast Track Data Warehouse can become part of a scale-out solution that continues to deliver return on investment well into the future.

ADDITIONAL INFORMATION

For more information about the SQL Server Fast Track Data Warehouse, visit www.microsoft.com/fasttrack.



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