



Sun MySQL[®] Solution Bundles

Making MySQL applications easier to install, configure and optimize



The MySQL[®] database has become the world's most popular open source database because of its world-class performance, high reliability and ease of use. It's used in more than 11 million installations ranging from large corporations to specialized embedded applications on every continent in the world. Sun has teamed up with AMD to build optimized solution bundles to meet the application demands of customers with Web 2.0, SME and departmental database requirements.

Sun optimized solutions for MySQL

Sun has harnessed the power of the Sun Fire™ X4100 M2 or X4200 M2 servers and the Sun StorageTek™ 2530 storage array to build turn-key solution bundles that are easy to deploy and easy to optimize. These bundles include all of the pieces you need to make MySQL applications scale and perform.

Meeting IT Needs

Mission critical is no longer reserved for the data center. Every business needs reliable computing solutions, regardless of their size or location. The Sun MySQL bundle optimization helps improve both the performance and reliability needs of SMEs and departmental SLAs. The proliferation of Web 2.0 and other transaction intensive applications are helping MySQL grow across the globe.

World-class performance

The Sun Fire x64 servers helped set the world record for database performance (TPC-H)* and is now optimized for MySQL applications. Based on AMD's advanced Opteron CPUs and HyperTransport memory architecture, the Sun Fire X4100 M2 and the X4200 M2 servers provide the highest transaction rates on 64-bit, x86 systems. The Sun Fire X4100 M2 and X4200 M2 servers bring world-class performance to SMEs and departments for a better value.

StorageTek 2530 workgroup storage

The StorageTek 2530 array is based on the latest enterprise class SAS technology. Offering high performance and data protection capabilities needed for every business critical solution. The StorageTek 2530 scales to 10.8TB of high availability storage. The StorageTek 2530's storage can be shared across servers and supports snapshot for business continuance needs.

*http://blogs.sun.com/bmseer/entry/tpc_h_100gb_sun-fire

Highlights

- Optimized solutions for MySQL databases
- Built from Sun servers and storage
- Sun performance-ready solution bundles for easy installation
- Step-by-step performance guide for configuration
- Special bundle pricing to improve value and ROI
- Low-power computing built on AMD 64-bit Opteron CPUs
- High-performance SAS storage for scalability and data protection
- Pay-as-you-grow for easy growth
- Built using the TPC World Record server technology
- Ideal for SME, departmental and Web 2.0 applications
- Enterprise-class performance and data protection

MySQL bundle #1 details:

- One Sun Fire X4100 M2 server
 - AMD 2220 CPU
 - 8 GB DDR 400 RAM
 - Dual 146 GB SAS Drives
 - Single DVD Drive
 - Rail kit
- Sun StorageTek 2530
 - 12 x 73 GB SAS drives
 - 15K RPM
 - Two storage domains
 - Dual RAID controllers
 - Three host SAS ports
 - Two SAS cables
 - Rail kit
- Sun SAS HBA

MySQL bundle #2 details:

- Two Sun Fire X4200 M2 servers
 - AMD 2220 CPU
 - 8 GB DDR 400 RAM
 - Dual 146 GB SAS Drives
 - Single DVD Drive
 - Two rail kits
- Sun StorageTek 2530
 - 12 x 146 GB SAS drives
 - 15K RPM
 - Two storage domains
 - Dual RAID controllers
 - Six host SAS ports
 - Four SAS cables
 - Rail kit
- Sun SAS HBA
 - Four SAS HBA cards

Green and MySQL

Like all Sun products, the MySQL bundle is designed for green operation with lower power and cooling costs. Sun and AMD are leaders in Green IT. Each of these solutions are fully recyclable and made with reduced hazard substances.

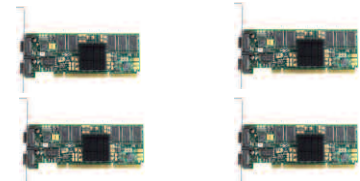
**MySQL Bundle #1****Sun Fire X4100 M2 server****Sun SAS HBA****Sun StorageTek 2530****Ready-to-go for MySQL**

The Sun MySQL bundles are designed to be installed and ready to go. The Sun Fire servers have powerful AMD 2220 CPU and 8 GB of HyperTransport RAM for I/O intensive applications. The StorageTek 2530 is optimized for the best in price/performance with 73 GB and 146 GB, 15K RPM, SAS drives. These drive choices are ideal for databases that typically need faster access times across more high speed spindles to increase transaction rates. The StorageTek 2530 can scale to 36 drives to further increase I/O rates.

Keys to MySQL tuning

The keys to optimization of MySQL lie in grouping the right workloads, I/O engines and file system attributes to reduce overhead. Grouping work loads on a dedicated VM or physical servers allow buffers, caches and file system read-ahead and write-back parameters to be optimized.

- **Step 1:** Reduce memory using functions to free up HyperTransport memory performance
- **Step 2:** Reduce the need to flush caches to disk to reduce I/O overhead
- **Step 3:** Adjust file system read-ahead or write-back parameters based on I/O type
- **Step 4:** Leverage internal buffering in MySQL storage engines to remove double buffering by the file system
- **Step 5:** Group I/O types together on VMs or physical servers to maximize settings and increase system transactions

MySQL Bundle #2**Two Sun Fire X4200 M2 servers****Four Sun SAS HBAs****Sun StorageTek 2530****HA and RAS**

The Sun Fire X4100 M2, the X4200 M2 and the StorageTek 2530 are designed for lights out operation. Each product offers enterprise class HA and RAS software and hardware tools. Ensure around the clock access to Sun's award winning global service organization with a Sun Spectrum service plan.

Learn More.

To learn more about the Sun MySQL solution bundle, visit sun.com/promotions and click on the Get a Sun Bundle, Save a Big Bundle promotion.