

KOSAR SQL

Dramatically Improve Performance, Scalability, Elasticity and Consistency with Zero Programming Overhead

Data Explosion Impacts Performance:

The rapid growth in Internet users, mobile devices and applications has resulted in an explosion of data and transaction volumes. It challenges companies that provide real-time applications to consumers with a very low tolerance for latency and errors. SQL database management systems that are central to these operations are often the performance bottleneck. IT departments are tasked with scaling databases while keeping costs low, minimizing downtime and reducing impact on existing applications.

KOSAR SQL – Internet Scale Caching Middleware with Zero Programming Overhead:

KOSAR is a novel application-transparent approach to cache consistency, designed to enhance the performance of SQL-based data intensive applications such as social networking websites or cloud-based computing solutions.

KOSAR's integrated architecture out-performs traditional caching solutions such as memcached by over 600%

Dramatic Performance Improvement:

KOSAR stores results of queries in RAM and looks them up when the queries occur again rather than processing queries - thereby improving performance and throughput dramatically – as proven through rigorous benchmarking.

Guaranteed Data Consistency:

Using patented technology, KOSAR automatically detects when a database change impacts its cached data and transparently handles its update - eliminating complex overhead typically required by applications to keep data consistent.

Elastic Scalability: KOSAR provides a fast, scalable, and fault-tolerant caching layer that can respond to varying loads in real time. Nodes may be added or removed with no downtime.

No Application Changes Required:

KOSAR SQL eliminates 100% of the programming overhead required to implement a cache with JAVA applications using a relational database management system.

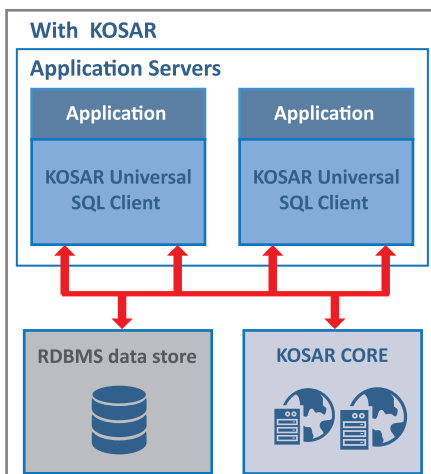
KOSAR is the only elastic caching solution that requires zero programming overhead.

Single Click Deployment:

KOSAR's single-click user-interface enables an administrator to spin up the caching layer whether for development, testing, or deployment purposes. Nodes may be configured to use either the total available memory or a fraction of it. This memory can be adjusted on the fly as the system services requests.

Easy Monitoring and Administration:

The KOSAR admin user interface provides a comprehensive cluster-wide monitoring and management UI. Enables monitoring of cached query templates with the ability to drill down to query instances to manage caching at a fine granularity.

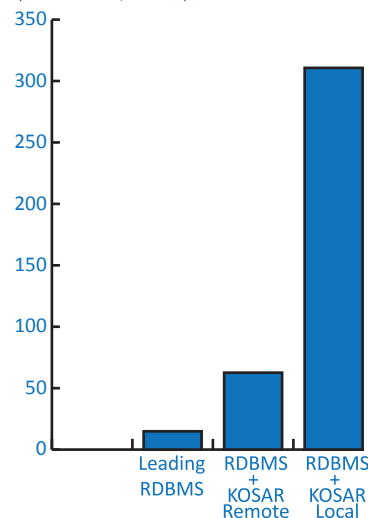


High Availability:

In the event of node failures and intermittent network connectivity between the components, KOSAR continues to process requests.

RDBMS Performance Comparison

(1000 Actions/Second)



Out of the Box Interoperability:

KOSAR functions with all SQL systems such as Oracle, MySQL, Microsoft SQL Server, IBM DB2, PostgreSQL, and many more. Its Universal SQL client incorporates these systems with either local or remote caches seamlessly.

Highlights:

- Zero programming overhead translates to significant cost savings and lower TCO
- Elastic scalability and performance improvements even at extreme loads
- Guaranteed Cache Consistency - Patented algorithm transparently updates cache when the application changes the database
- Single-click deployment for rapid on-demand scalability
- Supports all SQL systems