THE DATABASE BEHIND THE WORLD'S HIGHEST PERFORMANCE, MOST SCALABLE APPLICATIONS

IgniteTech's ObjectStore solution is an object-oriented database management system for applications that demand reliable, transactional object persistence and real-time data caching. It is the leading in-memory database for applications that demand high performance, extreme scalability and real-time responsiveness.

REAL-TIME RESPONSIVENESS — BIG DATA SCALABILITY

IgniteTech's ObjectStore automates the exchange of data seamlessly between incompatible systems. Organizations around the world rely on it for data integration initiatives ranging from data migrations and synchronization to data services. And there's no need to wait around — the decentralized architecture processes in a fraction of the time it takes for similarly sized transformations.

- Stores relationship-centric models that power high performance data processing, analytics and ACID transactions
- Leverages in-memory caching and fast event data capture
- Enables developers to build custom, highly-tuned data structures that make big data stores more usable and valuable
- 20+ year head start on emerging solutions — already proven by hundreds of customers

App Performance Beyond Reach

- Achieve high performance without over-simplifying your data models or compromising transactional integrity
- Provide an optimal data structure for app performance without compromising durability and availability
- Improve both data reads and writes, including fully ACID transaction semantics and multi-instance concurrency control
- Dramatically reduce query latency for thousands of users

Distributed Transactional Caching

- Data flows seamlessly between memory and database
- Cache-and-forward architecture maintains data in-memory across all instances, ensuring data consistency and making real-time and transaction data instantly available
- Sits above any data source — optimize backend data sources (e.g. relational, big data, etc.)
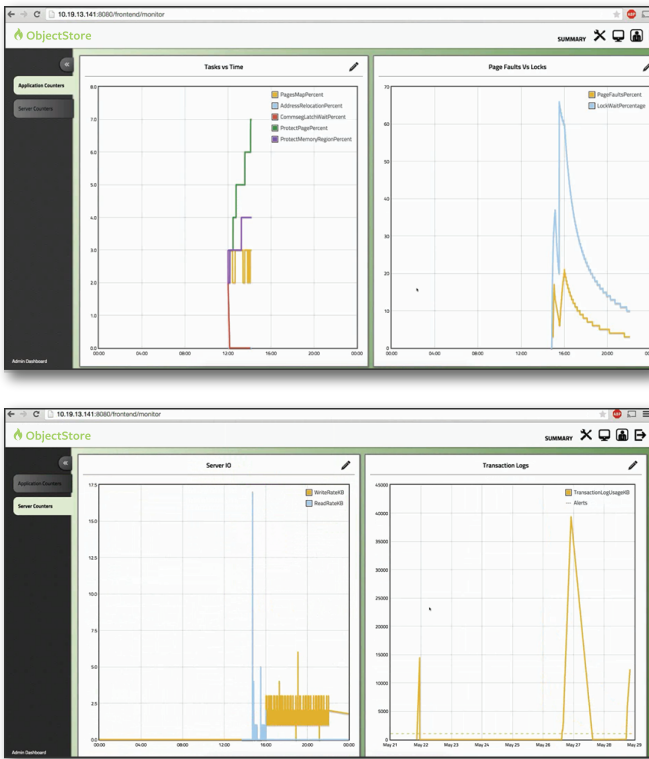
IGNITETECH™

LEADING OBJECT-ORIENTED DATABASE MANAGEMENT SYSTEM FOR COMPLEX DATA MODELS AND REAL-TIME RESPONSIVENESS

Flexible Programming Model

- Design any data object model with custom indexing optimized for the way it is used (example: optimizing frequently used queries)
- Make and handle rapid changes to complex application data models
- No conversion to and from relational data models

Enterprise Monitoring API

- Better application performance and availability through proactive monitoring
- Easy integration with existing monitoring apps
- Provides access to ObjectStore C++ counter
- Scalable with minimal impact on application performance

Experience the leading in-memory database system for advanced data management and real-time responsiveness.

Advanced Technology
Instant access, rapid change management and lag-free responsiveness for serious data volume

Versatile
Do what works for your developers with extremely flexible C++ and Java programming models

Cloud
Scale your data for anywhere access

Object Oriented
Leverage the power of an OODMS to blow through the constraints of relational database systems

Embedded Installer

- Provides a single, seamless installer to make it easier for end users and distributors to install client applications

Full Stack Trace on Fatal Error

- Allows more efficient review of the cause and facilitates issue reproduction and resolution
- Provides customers an opportunity to review errors caused by their applications

Automatic Index Management

- Indexes on Java collections are automatically updated when the collection elements are updated
- Removes the necessity for user action when the elements of the collection are updated
- Removes inaccurate query results caused by indexes being out of sync with the collection

PRODUCT SUMMARY

IgniteTech's ObjectStore solution is an object-oriented database management system for applications that demand reliable, transactional object persistence and real-time data caching. It is the leading in-memory database for applications that demand high-performance extreme scalability and real-time responsiveness.

KEY FEATURES

- Stores relationship-centric models that power high performance data processing, analytics and ACID transactions
- Dramatically reduce query latency for thousands of users
- Leverages in-memory caching and fast event data capture
- Enables developers to build custom, highly-tuned data structures that make big data stores more usable and valuable
- Enterprise monitoring API that allows you to collect, store and analyze internal counters of IgniteTech's ObjectStore
- Embedded installer makes it easier for end users and distributors to install client applications
- Full readable stack trace on occurrence of a fatal error
- Automatic index management ensures that indexes on Java collections are always in sync

OBJECTSTORE COPILOT

ObjectStore CoPilot is a GenAI assistant integrated as a standalone web app on top of ObjectStore, designed to guide and support developers.Developers interact with CoPilot in natural language. Enter a query, and CoPilot quickly converts it into code or fetches relevant documentation. For example, a "recent orders" request triggers CoPilot to produce the relevant code snippet. Likewise, a backup query prompts it to present the necessary documentation and commands. With CoPilot, you can expedite development, improve code quality, and fast-track learning for new developers.

CERTIFIED PLATFORMS

OS Family	Operating System	Compiler	Java
Windows	Windows 7 Windows 8 Windows 10 Windows Server 2008 R2 (62) Windows Server 2012 R2 (62)	Visual Studio 2012 Update 3 Visual Studio 2013 Visual Studio 2015 Visual Studio 2017	Oracle Java 7 Oracle Java 8
Linux	RHEL 6.4 RHEL 7.1	GCC 4.4.7 GCC 4.8.3	Oracle Java 7 Oracle Java 8

FOR MORE INFORMATION

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