

Cherry IMDB

Cherry's in-memory relational database management system provides the speed and scalability you need for any financial, IoT, Big Data, cloud and mobile solution.

Introducing Cherry IMDB

Cherry IMDB is an in-memory relational database management system (DBMS) that maximizes performance and scalability.

It stores user data in-memory, in table form, to perform highly effective data search and update operations.

The solution delivers high value across multiple industries, including IoT, Big Data services, the cloud and mobile services.

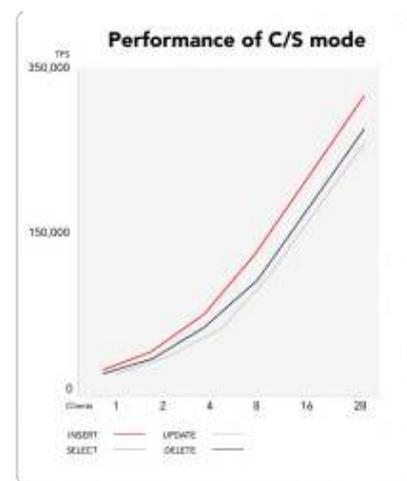
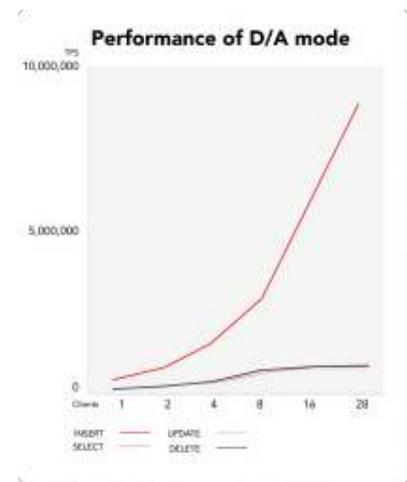
The best of both cluster worlds

In distributed computing, shared nothing architecture and shared disk architecture are common solutions.

But each suffers from limitations:

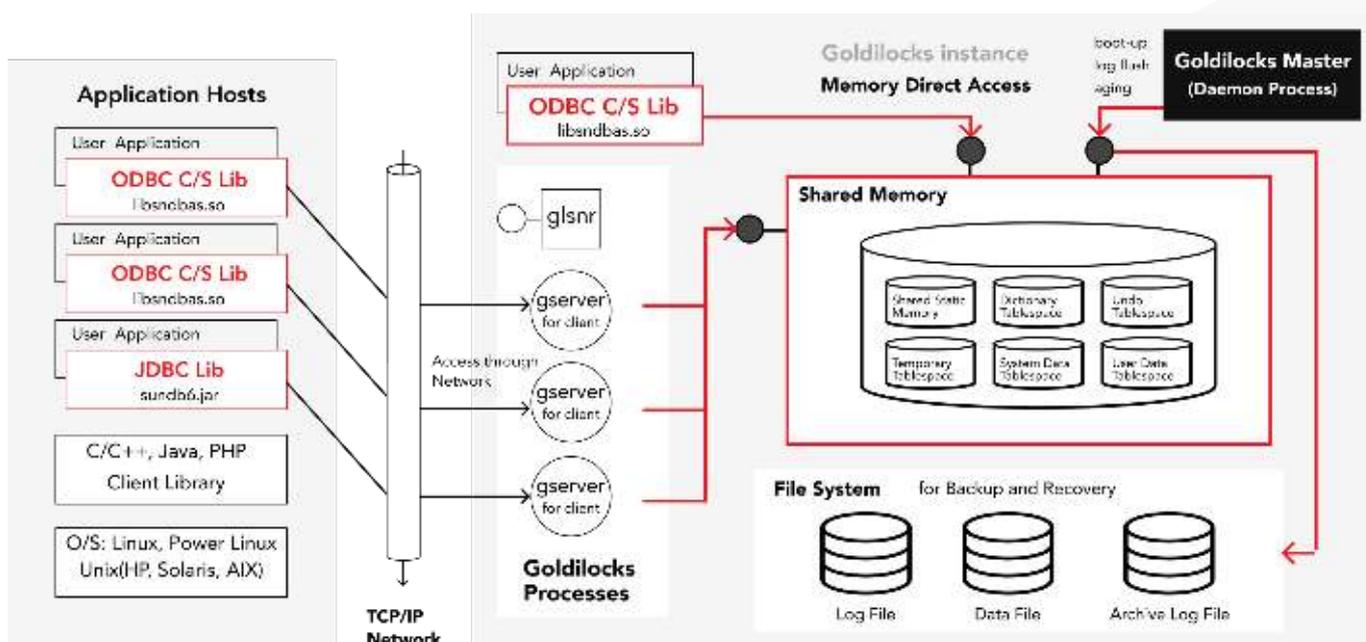
- Shared disk architecture boasts high integrity and flexibility, but has limited scalability.
- Shared nothing architecture offers unlimited scalability, but suffers from low integrity.

Cherry IMDB features an innovative shared nothing/scale out cluster architecture that offers linear scalability, high performance and high availability.



Cherry IMDB architecture

- Use Cherry IMDB as a standalone database, or bind multiple databases into a single cluster and manage it in a cluster unit.
- Parallel processing guarantees high availability and improves throughput.
- Cherry IMDB's cluster system guarantees ACID of cluster-wide transactions.
- Each database belonging to the Cherry IMDB cluster system has a multi-process structure and data loading method, just like a standalone database.
- We've added c-dispatcher and cluster server (cserver) processes.
- Shared memory includes tablespaces and management areas for transaction management of cluster systems.



Wide use across industries

Cherry IMDB's speed and scalability make it an optimal solution across a wide range of industries, including IoT, Big Data services, the cloud and mobile services.

It's especially suitable for the financial services industry, where it can be found in applications for stock trading, as well as institutional delivery and fraud detection systems.

| A proven solution, used worldwide

Major corporations and government institutions in Asia and beyond trust Cherry IMDB.



Korea Exchange puts Cherry IMDB to use in its market monitoring system with real-time processing and extraction of trading information, allowing it to detect abnormal transactions as soon as they happen.



Bithumb, the world's largest cryptocurrency trading exchange, uses Cherry IMDB in its trading system.



KB Bank, South Korea's largest bank, uses Cherry IMDB to monitor real-time data and truncate abnormal transactions for different financial transactions.



SK Telecom, one of Korea's largest telecom providers, uses Cherry IMDB for real-time billing/settlement for telecom users across Korea.



China Unicom used Cherry IMDB to build a next-generation cBSS, allowing for real-time billing/settlement for telecom users across China.



Samsung Securities uses Cherry IMDB in its next-generation ordering system, separating order-related business from its core account. It is also building an active-active disaster recovery system between Seoul and other cities.

| Asia's First

Cherry IMDB is Asia's first DBMS to earn industry-standard TPC-C certification for real-time transaction capability.



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