InfiniDB™ Enterprise Edition
Scalable. Fast. Simple.

Business intelligence is fast becoming the single most strategic weapon for modern day businesses that want to make decisions right the first time to better grow their business. Not surprisingly, IT professionals indicate that the biggest contributor to success, and the important component of any business intelligence, data warehouse, or analytic application, is the database server itself from which everything else is built.

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Key Benefits

- Scales both up and out

- SMP and MPP capable

- Delivers linear performance

- Scale user concurrency and I/O

- Handles many TB's of data

- Dynamic node additions and changes allows more capacity to be added online

- Built in failover at the I/O level eliminates database downtime

- Easily configured for high availability

- Logical data compression reduces the size of the raw data footprint for storage savings

InfiniDB™ Enterprise Edition

Calpont offers InfiniDB^{TM} Enterprise Edition for those wanting to build scalable, high-performing business intelligence databases, data warehouses, and read-intensive applications without having to worry about high software licensing and maintenance costs. InfiniDB Enterprise is built upon the solid foundation of InfiniDB Community Edition, which is a free and open source analytic database also provided by Calpont. InfiniDB Enterprise builds upon the Community Edition to supply massive parallel processing (MPP) capabilities for unlimited scale out performance. Global administration functionality from a single console, database and operating system monitoring, automatic notifications and alerts, and production support are also included.

InfiniDB Enterprise provides the following benefits for those needing a modern database specially built to handle the demands of today's intensive business intelligence and data warehousing applications:

InfiniDB Enterprise is Scalable

InfiniDB Enterprise future proofs your business intelligence and data warehouse applications because it allows you to scale your database **both up and out**. InfiniDB can exploit all the benefits of modern servers by using all their CPU's/cores and thus provides SMP capabilities that boost overall database performance.

But InfiniDB also supplies a scale-out architecture that allows you to increase performance in an MPP fashion by adding additional nodes to an InfiniDB Enterprise configuration. InfiniDB's modular architecture lets you scale out both at the user layer to add more processing power nodes for concurrency needs and at the I/O layer to increase performance for data access operations.

Further, InfiniDB uses multiple commodity hardware machines to achieve linear increases in overall performance when nodes are added. Adding inexpensive hardware to an InfiniDB configuration allows the database to increase processing power so response times can oftentimes be reduced in half just with the addition of new nodes. This makes it easy to adjust for growing data volumes, increased user activity, or the desire to meet better overall performance goals. Moreover, this can be accomplished in a dynamic fashion where the InfiniDB system doesn't go down or need to be taken offline when new nodes are added.

InfiniDB's architecture enables you to scale to manage many terabytes of information and never sacrifice fast response times. In addition, InfiniDB's modular architecture provides automatic failover at the I/O layer where a downed node does not take the database offline. High availability can also be configured at the user/concurrency layer so processing can continue uninterrupted at that level as well.

Key Benefits

- Column-oriented architecture processes data much faster than legacy row-based systems

- Shared-nothing data cache provides quick memory access for large databases

- High-speed loader loads data faster than traditional methods

- MVCC support ensures little/no lock contention

- Distributed hash joins process large tables very fast

Key Benefits

- ANSI-standard SQL and standard RDBMS operations mean little to no learning curve

- No indexing or other object structures needed for high-performance

- No complex or expensive hardware or networking necessary

- No in-depth knowledge of data warehousing needed to be successful

- MySQL front end lets existing MySQL user be instantly productive with InfiniDB

InfiniDB Enterprise is Fast

InfiniDB Enterprise is specially designed for business intelligence and data warehouse work. InfiniDB uses a column-oriented architecture rather than a legacy, row-based approach to store and retrieve data. Because InfiniDB only reads the necessary columns to satisfy query requests instead of full rows of data, it performs magnitudes better than traditional RDBMS's do.

InfiniDB also combines a column-based approach with both SMP and MPP capabilities, which increases its performance even more. If more speed is desired, more CPU's can be added to a single box or more physical nodes can be added to a configuration, with the end result being linear performance gains. In an MPP configuration, a shared-nothing data cache is used on each node, which allows InfiniDB to literally cache large databases across all the participating nodes for fast access.

Finally, InfiniDB also supplies a number of features that ensure high performance in every area of the server. Features such as a high-speed loader, which loads data much faster than other methods, MVCC support readers never block writers or vice-versa), and support for distributed hash joins, which are the fastest way to process large tables in a data warehouse, are all found in InfiniDB.

InfiniDB Enterprise is Simple

IT professionals will find InfiniDB Enterprise very easy to evaluate, justify and use. InfiniDB looks and handles like any standard RDBMS does and supports ANSI-standard SQL so there are no new languages or paradigms to learn. As a result, there is little to no learning curve required for new users of InfiniDB.

In addition, because of its column-oriented architecture, there is no need for indexing in InfiniDB. Instead, InfiniDB automatically maintains internal structures that know where the data is at all times and only reads the necessary information to satisfy queries so all extraneous I/O is avoided – all without any intervention from database administrators or developers. Other physical design structures such as data partitioning, materialized views/summary tables, and other like objects are also not necessary or used. InfiniDB also uses commodity, standard hardware, removing the need for complicated or expensive requirements.

With InfiniDB, there is no need for IT staff to possess very specialized knowledge of data warehousing or be experienced in creating complicated physical designs that are needed with traditional RDBMS's to support TB's of data. Instead, tables are simply created and loaded and InfiniDB takes care of the rest.

Lastly, InfiniDB uses MySQL as its front end, so any current MySQL users will be immediately productive. Areas such as security, stored procedures, and more are nearly identical in both MySQL and InfiniDB so no retraining should be necessary.

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Key Benefits

- Various production support options include up to 24x7x365 access to technical support personnel

- Scheduled software maintenance updates keep the server secure and up to date

- Crash recovery and transaction support protect key data

- Database management, monitoring, and alerting is all controlled from a single, easy-to-use console

InfiniDB Enterprise is Production Ready

InfiniDB Enterprise is ready to support mission-critical business intelligence and data warehousing applications. Calpont provides everything that's necessary in the InfiniDB Enterprise Edition itself as well as the ancillary services and support that IT professionals expect in software used for business functions.

Full production support is available from Calpont in various tiers up to 24x7x365 around-the-clock support. Benefits also include items such as consultative support, bug escalation privileges, hot-fix builds, scheduled quarterly software maintenance updates, and more.

InfiniDB Enterprise contains all the features expected of a database that will handle critical application needs. Crash recovery, transactional support, automatic software provisioning and more are all supported.

Finally, InfiniDB Enterprise supplies ancillary software that assists you in administering, monitoring, and managing your data warehouse. A single console allows you to setup, configure, and control all nodes in an InfiniDB configuration. Built-in monitoring provides you with the ability to monitor the performance of both your database and operating systems on all nodes. And built-in thresholding, notifications, and alerts lets IT staff stay informed of issues that threaten the performance or availability of the system before they become a problem for end users. SNMP support is also provided so you alerts can easily be sent to trouble-ticketing systems like Tivioli or HP OpenView.

Key Benefits

- No complicated or expensive licensing or maintenance fee structures

- Pay only a flat rate for each server that you use and a small maintenance fee per year

- Unlimited site licenses also available

InfiniDB Enterprise is Cost Effective

No one company makes sophisticated business intelligence/data warehouse database access more flexible and inexpensive than Calpont. InfiniDB's Open Source foundation allows Calpont to offer its InfiniDB Enterprise Edition at a cost that everyone can afford.

InfiniDB Enterprise licensing has been simplified to eliminate the complexity associated with pricing by the CPU/core or per the amount of storage used. A standard license is priced at a flat rate per server node. This means no worries about the size of a machine, number of concurrent users, or size of database, both now and in the future. A licensing fee is only paid once for each server node used (either physical or virtual) and then your choice of Silver or Gold maintenance fee each year is assessed to obtain access to maintenance service packs and new major software releases.

With InfiniDB Enterprise, we're enabling pervasive business intelligence and data warehousing throughout an organization. Rather than pay for expensive license and support fees for legacy RDBMS's that are not designed for business intelligence or data growth, IT professionals can instead use InfiniDB Enterprise, gaining access to better performance over traditional systems and pay a fraction of the cost of legacy databases.