

The modern Java™ environment offers significant advantages to the application developer, including rapid development, object reuse and platform portability. Unfortunately many of these benefits are lost when a traditional database management system (DBMS) written in C or C++ must become part of the environment. Not so with Informix® Cloudscape™, the only 100% Pure Java™ object-relational DBMS available from a major database vendor. Cloudscape embeds invisibly inside a Java application, or can be used in a client-server or browser-server configuration.



Embeddable DBMS for Database-Driven Java Applications

Cloudscape is an embeddable SQL database engine for Java. It is implemented as a library of Java classes, providing seamless integration with any Java application. In its simplest configuration, Cloudscape can be embedded in a stand-alone application. It can also be embedded in a server framework to provide client-server JDBC or browser-server HTTP connectivity. In either case, the database engine becomes part of the embedding application so that the user never has to install or manage it. With a class library footprint of about 2 MB, Cloudscape is the ideal database engine for deploying database-driven Java applications.

Cloudscape provides a relational framework for the storage of classical relational data of Java objects. It implements the SQL-92E standard (and some of the more advanced SQL-92 features) with object extensions implemented in Java. It delivers flexible

access to any kind of data by means of its content. Cloudscape supports multiway joins, B-Tree indexing, referential integrity, and full SQL transaction semantics that guarantee data consistency and integrity even in the event of system or power failure.

Seamless Java Environment

Cloudscape's DBMS can be programmed to handle the application data model directly. Unlike older relational DBMS that can only handle numbers and character strings, Cloudscape can be extended with any serializable Java class. Cloudscape supports the creation of a column in a table of type Java class and the methods that manipulate the class can be accessed directly from SQL. This provides a seamless object-oriented Java environment for your application: business logic and database logic share the same Java view of the data, making the database look like it was designed specifically for your application.

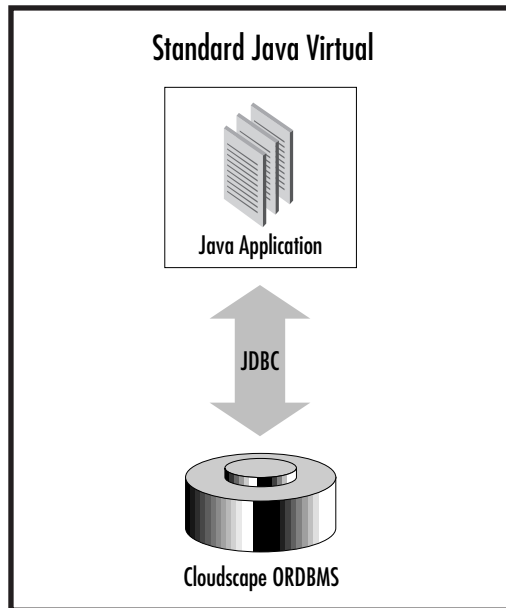


Figure 1 Cloudscape Embedded Application Architecture.

About Informix

Based in Menlo Park, California, Informix Corporation specializes in advanced information management technologies that help enterprises in the i.Economy get to market quickly, generate new revenue, build a unique strategic advantage, and solve their most complex business problems. Informix offers customers a complete software infrastructure for the Web that delivers highly scalable transaction processing, personalized content management, integrated business intelligence, full multimedia capabilities and complete e-commerce solutions. For more information, contact the sales office nearest you or visit our Web site at www.informix.com.

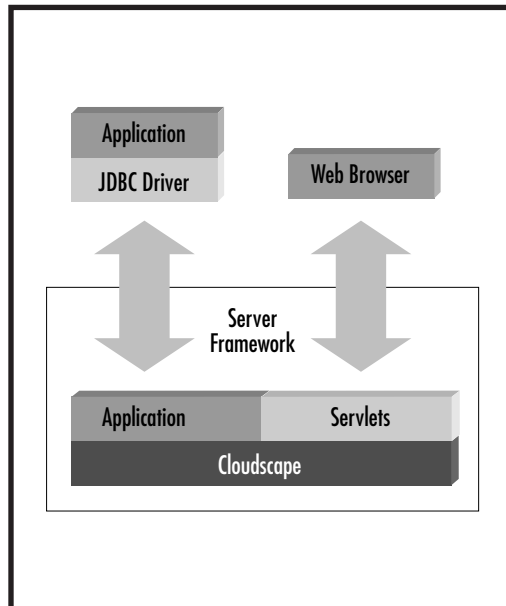


Figure 2 Cloudscape Server Architecture.



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