Objectivity/DB

Objectivity/DB® is the leading distributed, scalable object database with unrivaled support for mixed language development and mixed-hardware environments. Objectivity/DB boosts developer productivity, shortens time to market, and provides the ideal platform for mission-critical applications requiring continuous performance and adaptability to future technologies. Programming interfaces are available for Java, C++, Smalltalk and SQL (ODBC). Objectivity/DB options provide support for fault tolerance and data replication.

With support for full multi-threading in the client application, Objectivity/DB version 5 provides high performance transaction management, tremendous scalability and complete interoperability across heterogeneous platforms and languages. A rich set of administration tools provides complete control over your database, which contains complex data types such as text and image, all types of objects, including dynamically sized objects, composite objects, and objects related through dynamic bi-directional links. A sophisticated object clustering mechanism allows logically related objects to be physically grouped to minimize I/O and locking overhead.

Objectivity/C++ with STL Support

Objectivity/C++ allows storing the information created and used by the application is as easy as joining Objectivity's classes to those built for the application. In addition, the intuitive coding style of C++ and the use of standard development tools for compiling, linking and debugging are fully supported by Objectivity/C++. Objectivity/DB supports complete language independence. Objects defined and created with any of the Objectivity/DB languages can be modified or queried with any other. Applications built with C++ allow the use of off-the-shelf SQL and ODBC tools to query the information; no more need to implement custom report tools for every application.

Objectivity for Java

Objectivity provides full support for Java with a language binding compliant with the ODMG 2.0 standard. Objectivity's unique "single process model" architecture for Java-based applications provides the highest performing solution in the industry because the application program and the Java Virtual Machine run in the same process. Objectivity for Java delivers truly scalable solutions because the foundation is Objectivity's advanced distributed architecture which provides a single logical view of the federated database across multiple heterogeneous servers. The Java binding protects customer investment by ensuring that objects created using the Java language binding are accessible from C++, Smalltalk and SQL.

Objectivity/Smalltalk

Objectivity/Smalltalk provides a Smalltalk language interface to Objectivity/DB for high performance, high availability, client/server applications. With Objectivity/Smalltalk, Smalltalk applications benefit from the high performance storage, multi-threading, sharing, retrieval and update of database objects. Smalltalk applications in an Objectivity/DB environment can easily share access to information managed by C++ and Java programs. The data created by Smalltalk applications can even be reported-on and managed by widely available SQL and ODBC tools.

Objectivity