



hp e3000
business servers

java database connectivity (jdbc) product brief



hp driver for jdbc

In today's enterprise environment, Java-based computing plays an important role in many Internet and intranet solutions. Most Java-based functionality can be developed using the Java Developer's Kit (JDK), but the Java platform can offer additional capability via an enterprise application programming interface (API).

One of the most widely-used Java APIs is Java Database Connectivity (JDBC). JDBC facilitates development of Java applications and applets with a wide range of databases.

Now, with the introduction of the new HP Driver for JDBC, Hewlett-Packard adds this important component to the MPE/iX Internet and interoperability solution.

The HP Driver for JDBC allows Java applications and applets to access data stored in IMAGE/SQL and ALLBASE/SQL databases on the HP 3000 platform. The HP Driver for JDBC capability is also available for ALLBASE/SQL on HP 9000 servers.

java database connectivity (jdbc) api

JDBC supports Java's "write once, run anywhere" approach that helps eliminate cross-platform complexity. With JDBC, Java developers can write database-independent SQL statements. The JDBC process is fairly simple. First, the JDBC application invokes the JDBC driver manager to register and load the JDBC driver. Then the JDBC driver establishes a network connection with a database server, sends SQL statements, and processes the results.

There are four types of JDBC drivers:

- JDBC-ODBC Bridge
- Native API, Partly-Java Driver
- Network-Protocol, All-Java Driver
- Native-Protocol, All-Java Driver

The HP Driver for JDBC is the third type (Network-Protocol, All-Java driver)—the most flexible option.

database connections via url

JDBC exploits the advantages of Internet-standard Uniform Resource Locators (URLs) to identify database connections. JDBC URLs allow different drivers to use different schemes for locating databases and encoding all necessary connection information. A JDBC URL may refer to a logical host name that is dynamically translated to the actual name by a network naming system.

jdbc advantages

Industry Momentum: leading database, middleware, and tool vendors have built JDBC support into their Java products. This industry momentum ensures that users can build portable JDBC applications access to a wide range of relational databases.

Reduced Development and Maintenance Time: the Java and JDBC combination makes application development easy and economical. With the downloadable JDBC applet, preinstallation and configuration are not required on the client machine since the connections are completely defined by the JDBC URL. This situation also centralizes software maintenance and distribution.

availability

The supported version of the HP Driver for JDBC is bundled in MPE/iX 6.0 or later.

key features

The HP Driver for JDBC includes the following key features.

- **Full Access to Enterprise Data**— providing fast, scalable access to distributed business information from Java applications, applets, and servlets.
- **No Client Installation**—a pure JDBC driver is automatically downloaded as part of the applet that makes the JDBC API calls. The HP Driver for JDBC is fully downloadable, minimizing installation and administration overhead.
- **Flexible Deployment**—users can deploy the HP Driver on any Java-enabled Web server platform via two-tier or three-tier application models.
- **Designed for Java Environment**— the JDBC APIs are available now as a standard part of the Java Developer's Kit (JDK) platform.
- **Database Connections via URL**— JDBC exploits the advantages of Internet-standard Uniform Resource Locators (URLs) to identify database connections.
- **Full JDBC Specification Support**— the HP Driver for JDBC supports complete implementation of the JDBC API specification, including interface, class, and SQL grammar.



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Printed in USA 9/01 5980-7118EN

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