ZeosDBO Technical Info

ZeosLib Development Group

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ZeosDBO is a database middleware components for Borland development tools, including Delphi, C++ Builder and Kylix.

The following compilers are supported:

- Delphi 5 7 and 9-11
- Lazarus (FreePascal)
- MSEide+MSEgui (FreePascal)
- C++ Builder 5 6
- Kylix 2 3

ZeosDBO supports direct connectivity to the following databases using the vendor provided, native interface:

- MySQL 3.20 5.0
- PostgreSQL 6.5 8.1
- Firebird 1.0 2.0
- Interbase 5.0 7.5
- Microsoft SQL Server 7, 2000
- Sybase ASE 12.0, 12.5
- Oracle 9i
- SOLite 2.8, 3.5

For other databases we propose to use implemented Active Data Objects (ADO) Bridge.

Advantages of using ZeosDBO:

- Platform independance. The ZeosDBO is highly generic. Applications written in ZeosDBO can be migrated across databases without major changes.
- ZeosDBO is open source, written for usability and extensibility.
- ZeosDBO leverages the amazing power of the Delphi development environment without relying on a performance killing middleware.
- ZeosDBO is an extremely thin abstraction layer, unlike 'thick' layered protocols like ADO and BDE.

Package contents:

- ZCore Core classes and interfaces. Contains Java style objects and collections as well as compatibility types and functions.
- ZParseSql SQL specific for syntax and lexical analysis.
- 3. ZPlain Native plain API to supported SQL servers.
- 4. ZDbc Port of Java Database Connectivity API (JDBC 2.0). DBC API acts as intermediate layer between Plain API and highlevel TDataset or DBExpress components
- 5. ZComponent visual components descended from TDataset.
- 6. ZComponentDesign design time components. This package is not available for all compilers. If present it's only needed to install the components in the IDE.

Installed components:

- 1. TZConnection: This component encapsulates the database connection and transaction management.
- 2. TZReadOnlyOuery: TDataset component to execute SOL queries and process data in read-only mode.
- 3. TZQuery: TDataset component which allows data modifications in regular and cached mode.
- TZUpdateSQL: Analog of standard TUpdateSQL component to explicite definition of Insert/Update/Delete SQL statements for TDataset modifications.

- 5. TZStoredProc: The component to execute SQL stored procedures.
- 6. TZSQLProcessor: The component to execute SQL scripts for different SQL and various delimiter types.
- 7. TZSQLMonitor: The component to monitor all outgoing SQL queries and other logging information.
- 8. TZSQLMetadata: Specialized TDataset component which provides an access to database metadata such as tables, columns, indices, etc.

The project home page is here (for news, links and other project info): http://zeos.firmos.at [http://zeosfirmos.at/portal.php]

The sourceforge development site is located here (for technical resources and anonymous web based cvs access): http://www.sourceforge.net/projects/zeoslib [http://www.sourceforge.net/projects/zeoslib]

Thank you for using our software,

The ZeosLib Development Group