

Quick Start: DataDirect Connect[®] for ODBC Progress SQL92 Driver on UNIX and Linux

The following basic information enables you to connect with and test your DataDirect Connect[®] for ODBC Progress SQL92 driver immediately after installation.

Connecting to a Database

Once the DataDirect Connect for ODBC drivers are installed, you can connect from your application to your database.

Environment Setup

- 1 Check your permissions:** Log in as a user with full r/w/x permissions recursively on the entire DataDirect Connect for ODBC installation directory.
- 2 Determine which shell you are running:** Execute the *env* command.
- 3 Run the DataDirect Technologies setup script to set variables:** Two scripts, *odbc.csh* and *odbc.sh*, are installed in the installation directory. For Korn, Bourne, and equivalent shells, execute *odbc.sh*. For a C shell, execute *odbc.csh*. After running the setup script, execute the *env* command to verify that the *installation_directory/lib* directory has been added to your shared library path.
- 4 Set ODBCINI variable:** You must set the ODBCINI environment variable. The variable should point to the path from the root directory to the *odbc.ini* file where your data source will reside. DataDirect Connect for ODBC is installed with a template *odbc.ini* in the installation directory. For example:

```
$ ODBCINI= /opt/odbc/odbc.ini; export ODBCINI
```

- 5 Set Database-specific variables:**

DLC	/dlc	Progress 9 Client Networking SQL92 directory
PATH	%DLC%/bin;%DLC%;%PATH%	Add the bin subdirectory where you installed Progress 9 Client Networking SQL92 to the beginning of your PATH environment variable
PROMSGS	%DLC%/promsgs	Name + full path to Progress error messages file
Shared Library Path	%DLC%/lib	Add the lib subdirectory where you installed the Progress 9 Client Networking SQL92 to the beginning of your shared library path environment variable
TEMP	/temp	Existing directory to write temporary files

- 6 Test your native connection:** You must have all components of the Progress 9 Client Networking SQL92 software installed and connecting properly; otherwise, the driver will not operate correctly. The driver uses native libraries (database client to database) to connect to the database. You should test this native connection before attempting to connect with the driver. Errors encountered when testing the native connection are not ODBC driver-related. You must have a user name and password for the driver to work properly.

Test Loading the Driver

The `ivtestlib` tool is a utility to verify that the driver can be loaded into memory; it is located in the `installation_directory/bin` directory. For example, to load the Progress SQL92 driver on Solaris (where `xx` represents the driver level number), you would enter:

```
$ ivtestlib /opt/odbc/lib/ivpro9xx.so
```

Setting up a Data Source in the `odbc.ini`

The default `odbc.ini` installed in the installation directory is a template into which you enter your site-specific database connection information using a text editor. Each database has its own section in the template. On Solaris, for example, you might enter:

```
[Progress SQL92]
Driver=/opt/odbc/lib/ivpro9xx.so
Description=connection to my accounting database
DatabaseName=db
HostName=Progress SQL92 host
LogonID=JohnD
PortNumber=Progress SQL92 server port
```

Setting `odbc.ini` for Optimal Performance

For optimal performance, set `ArraySize` by making the following entry under Progress SQL92 in the `odbc.ini` file:

```
ArraySize=xx
```

where `xx` is the number of rows that the driver fetches. If your application retrieves large result sets, set `ArraySize` to the approximate number of rows in the result set; if retrieving small result sets, set this value to the approximate number of rows of the largest result set. For example, if your application normally retrieves 200 rows, it is more efficient for the driver to retrieve 200 rows at one time over the network than to retrieve 50 rows at a time during four round trips over the network.

Testing the Connection

The DataDirect Connect *for* ODBC installation includes a program called `example` that can be used to connect to a data source and execute SQL. The application is located in the `installation_directory/example` directory. To run the program, type `example` and follow the prompts to enter your data source name, user name, and password. If successful, a `SQL>` prompt appears and you can type in SQL Statements such as `Select * from <table_name>`. If `example` is unable to connect, the appropriate error message appears.

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