

## README for the HP ODBC Drivers for Linux and HP-UX

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This README file describes how to install and set up the HP ODBC Drivers for Linux and HP-UX. Use these drivers to access HP Neoview SQL databases on the HP Neoview Data Warehousing Platform for Business Intelligence.

This information is pertinent only to the general availability (GA) release of the drivers.

For legal notices, see the end of this document.

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### HP ODBC Drivers for Linux and HP-UX

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#### I. The Installation Package

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The HP ODBC Linux and HP-UX driver software is available as downloadable distribution files on this Web site:

<http://www.software.hp.com>

The distribution file: (<vvv> is the version number; for example, 1.0.0)

- \* Linux: hpodbc\_<vvv>\_Linux\_pkg.tar.gz
- \* HP-UX(IA-64): hpodbc\_<vvv>\_HPUX\_I\_pkg.tar.gz
- \* HP-UX(PA-RISC): hpodbc\_<vvv>\_HPUX\_P\_pkg.tar.gz

Files contained in the distribution file:

\* Linux:

libhpodbc\_1.so.x.0.0 (The value of x increases with succeeding major releases.)

LIBINFO.TXT  
MXODSN  
MD5SUM  
sql.h  
sqlxt.h

```
sqltypes.h
install.sh
connect_test.cpp
```

\* HP-UX(IA-64):

```
libhpodbc_i.sl.x (The value of x increases with succeeding major
                  releases.)
LIBINFO.TXT
MXODSN
MD5SUM
sql.h
sqlext.h
sqltypes.h
install.sh
connect_test.cpp
```

\* HP-UX(PA-RISC):

```
libhpodbc_p.sl.x (The value of x increases with succeeding major
                  releases.)
LIBINFO.TXT
MXODSN
MD5SUM
sql.h
sqlext.h
sqltypes.h
install.sh
connect_test.cpp
```

By default, a new version of the HP ODBC driver will be installed in these directories unless you specify different directories during installation:

```
/usr/lib
/usr/include/hpodbc
/etc/hpodbc
/etc/hpodbc/sample
```

## II. Installing or Reinstalling the HP ODBC Drivers for Linux and HP-UX

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NOTE: You must have root access to install the HP ODBC drivers at the default system locations.

1. Create a temporary directory.
2. Move the distribution file into the temporary directory:

```
Linux: hpodbc_<vvv>_Linux_pkg.tar.gz
```

```
HP-UX(IA-64): hpodbc_<vvv>_HPUX_I_pkg.tar.gz
```

```
HP-UX(PA-RISC): hpodbc_<vvv>_HPUX_P_pkg.tar.gz
```

3. Expand the installation and product files:

Linux: gunzip hpodbc\_<vvv>\_Linux\_pkg.tar.gz

HP-UX(IA-64): gunzip hpodbc\_<vvv>\_HPUX\_I\_pkg.tar.gz

HP-UX(PA-RISC): gunzip hpodbc\_<Vvv>\_HPUX\_P\_pkg.tar.gz

4. Extract the installation and product files:

Linux: tar -xvf hpodbc\_<vvv>\_Linux\_pkg.tar

HP-UX(IA-64): tar -xvf hpodbc\_<vvv>\_HPUX\_I\_pkg.tar

HP-UX(PA-RISC): tar -xvf hpodbc\_<vvv>\_HPUX\_P\_pkg.tar

5. Install the product:

./install.sh

NOTE: Except for the sample file, the install.sh script saves a copy (.SAV) of your previous installation files if they exist.

6. Enter a directory for the library file, or press Enter to use the default directory (/usr/lib).
7. Enter a directory for the data source template file, or press Enter to use the default directory (/etc/hpodbc).
8. Enter a directory for the include files, or press Enter to use the default directory (/usr/include/hpodbc).
9. Enter a directory for the sample program, or press Enter to use the default directory (/etc/hpodbc/sample).

### III. Setting Up the Client Environment

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If you selected default options during installation, ensure that:

- \* The include (\*.h) files are in the /usr/include/hpodbc directory.
- \* An MXODSN file is in the /etc/hpodbc directory.

NOTE: By default, the MXODSN file in the package will be installed as /etc/hpodbc/MXODSN.template. Rename it to MXODSN, and make necessary changes to the file before using the driver.

- \* The library is located in the /usr/lib directory.

If you selected nondefault locations during installation,

ensure that the files are installed in the directories that you specified in Steps 6 to 9 in Section II of this README.

NOTE: The driver expects the MXODSN file to be present in either the default location (/etc/hpodb) or the current working directory (CWD) of the application.

#### IV. Running the Sample Program

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NOTE: The examples after each step assume that you have default installation directories.

1. Move to the directory where you installed the sample program:

```
cd /etc/hpodb/sample
```

2. Compile the sample program:

\* Linux

```
gcc connect_test.cpp -L/usr/lib -I/usr/include/hpodb \  
-lhpodbc -o connect_test
```

\* HP-UX(IA-64):

```
aCC -AA connect_test.cpp -L/usr/lib -I/usr/include/hpodb \  
-lhpodbc -o connect_test -lm
```

To use cc for compiling and linking,

```
* rename connect_test.cpp to connect_test.c  
* cc connect_test.c -I/usr/include/hpodb -L/usr/lib -lstd_v2\  
-lCsup -lunwind -lm -lhpodbc -o connect_test
```

\* HP-UX(PA-RISC):

```
aCC -AA connect_test.cpp -L/usr/lib -I/usr/include/hpodb \  
-lhpodbc -lhppa -o connect_test -lm
```

To use cc for compiling and linking,

```
* rename connect_test.cpp to connect_test.c  
* cc connect_test.c -L/usr/lib -I/usr/include/hpodb \  
-lhppa -lstd_v2 -lCsup_v2 -lm -lhpodbc -o connect_test
```

3. If needed, modify the /etc/hpodb/MXODSN file.

4. Run the sample program:

```
./connect_test -d <datasource> -u <userid> -p <password>
```

#### V. Getting the Version of the Driver

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These steps print version information on the terminal:

1. Move to the directory where you installed the library file of the HP ODBC driver:

```
cd <your library home>
```

<your library home> is the directory where you installed the library file of the HP ODBC driver. For details, see Step 6 in Section II of this README.

2. Retrieve the version string:

\* Linux:

```
nm libhpodbc.so | grep HPODBC
```

\* HP-UX(IA-64) and HP-UX(PA-RISC):

```
nm libhpodbc.sl | grep HPODBC
```

The command returns this version information:

```
_###HPODBC__<x>_<y>_<z><yymmdd>
```

The "<x>\_<y>\_<z>" string is the version number (for example, 1\_0\_0).

The "<yymmdd>" string is the date, where yy is the year, mm is the month, and dd is the day (for example, 060419).

## VI. ODBC API Reference

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For more information about the ODBC external specification, see the Microsoft pages:

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/odbc/htm/dasdkodbcoverview.asp>

For more information about the HP ODBC Drivers for Linux and HP-UX, see the "Neoview ODBC Drivers Manual."

## Legal Notices

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