

# DataDirect ODBC on UNIX

This section provides examples for using DataDirect ODBC on UNIX systems:

- "chatr" Requirement for ODBC Server
- "chatr" Requirement for ODBC Client
- "odbc.ini" Examples for ODBC Server
- Sample Sybase ODBC Variables
- Sample Informix ODBC Variables
- IBM DB2 CLI

The examples apply specifically to HP-UX and can be customized for other UNIX systems.

Please note that some versions of DataDirect ODBC may issue the following warning when connected:

```
[ODBC SQL Server driver] Error on input or output to a file. No such file or
directory. Additional Information /opt/odbc/odbc.ini.
```

To bypass this error message, set the following environment variables on the server side before starting the DataDirect ODBC server:

```
VORTEX_HOST_LOGFILE=/tmp/host
VORTEX_HOST_LOGOPTS=FULL
export VORTEX_HOST_LOGFILE VORTEX_HOST_LOGOPTS
```

## "chatr" Requirement for ODBC Server

```
$ chatr +s enable osxhost.odbcint
osxhost.odbcint:
  current values:
    shared executable
    shared library dynamic path search:
      SHLIB_PATH      disabled  second
      embedded path  disabled  first  Not Defined
    internal name:
      osxhost.odbcint
    shared library list:
      dynamic  /opt/odbc/lib/libodbc.sl
      dynamic  /opt/odbc/lib/libodbcinst.sl
      dynamic  /usr/lib/libC.1
      dynamic  /usr/lib/libM.1
      dynamic  /usr/lib/libdld.1
      dynamic  /usr/lib/libc.1
    shared library binding:
      deferred
    static branch prediction disabled
    data page size: 4K
    instruction page size: 4K
  new values:
```

```

shared executable
shared library dynamic path search:
  SHLIB_PATH enabled second
  embedded path disabled first Not Defined
internal name:
  osxhost.odbcint
shared library list:
  dynamic /opt/odbc/lib/libodbc.sl
  dynamic /opt/odbc/lib/libodbcinst.sl
  dynamic /usr/lib/libC.1
  dynamic /usr/lib/libM.1
  dynamic /usr/lib/libdld.1
  dynamic /usr/lib/libc.1
shared library binding:
  deferred
static branch prediction disabled
data page size: 4K
instruction page size: 4K
$

```

## "chatr" Requirement for ODBC Client

```

$ chatr +s enable natural
natural:
  current values:
    shared executable
    shared library dynamic path search:
      SHLIB_PATH disabled second
      embedded path disabled first Not Defined
    internal name:
      natural
    shared library list:
      dynamic /opt/odbc/lib/libodbc.sl
      dynamic /opt/odbc/lib/libodbcinst.sl
      dynamic /usr/lib/libC.1
      dynamic /usr/lib/libM.1
      dynamic /usr/lib/libdld.1
      dynamic /usr/lib/libc.1
    shared library binding:
      deferred
    static branch prediction disabled
    data page size: 4K
    instruction page size: 4K
  new values:
    shared executable
    shared library dynamic path search:
      SHLIB_PATH enabled second
      embedded path disabled first Not Defined
    internal name:
      natural
    shared library list:
      dynamic /opt/odbc/lib/libodbc.sl
      dynamic /opt/odbc/lib/libodbcinst.sl
      dynamic /usr/lib/libC.1
      dynamic /usr/lib/libM.1
      dynamic /usr/lib/libdld.1
      dynamic /usr/lib/libc.1
    shared library binding:
      deferred

```

```
static branch prediction disabled
data page size: 4K
instruction page size: 4K
$
```

## "odbc.ini" Examples for ODBC Server

```
[ODBC Data Sources]
myds=
Oracle7=
dBase=
Sybase=
Informix=
DB2=
Text=

[dBase]
QEWSID=35691
Driver=/opt/odbc/lib/ivdbf12.sl
Description=dBase
Database=/opt/odbc/demo

[Sybase]
QEWSID=35691
Driver=/opt/odbc/lib/ivsyb12.sl
Description=Sybase
Database=pubs2
ServerName=SYBASE
WorkstationID=id
LogonID=sa
Password=mypwd
OptimizePrepare=2
SelectMethod=1

[Oracle7]
Driver=/opt/odbc/lib/ivor712.sl
Description=Oracle7
ServerName=usrshp2
LogonID=scott
Password=tiger

[Informix]
QEWSID=35698
Driver=/opt/odbc/lib/ivinf12.sl
Description=informix92
Database=osqdev
HostName=usrshp2
LogonID=informix
Password=mypwd

[DB2]
Driver=/opt/odbc/lib/ivdb212.sl
Description=DB2
Database=waHgpo

[Text]
Driver=/opt/odbc/lib/ivtxt12.sl
Description=Text driver
Database=/opt/odbc/demo
```

```
[ODBC]
Trace=0
TraceFile=odbctrace.out
TraceDll=/opt/odbc/lib/odbcdrac.sl
InstallDir=/opt/odbc
```

```
[myds]
Driver=/opt/odbc/lib/ivor712.sl
Description=Oracle7
ServerName=usrshp2
LogonID=scott
Password=tiger
```

```
[Infodbc]
QEWSID=35698
Driver=/opt/odbc/lib/ivinfi2.sl
Description=informix92
Database=osqdev
HostName=usrshp2
LogonID=informix
Password=mypwd
```

```
[Sybodbc]
QEWSID=35691
Driver=/opt/odbc/lib/ivsyb12.sl
Description=Sybase
Database=pubs2
ServerName=SYBASE
WorkstationID=id
LogonID=sa
Password=mypwd
OptimizePrepare=2
SelectMethod=1
```

## Sample Sybase ODBC Variables

```
DSQUERY=SYBASE
INFORMIXDIR=/opt/odbc
IV_GLS_LCDIR=/opt/odbc/gls/lc11
IV_GLS_REGISTRY=/opt/odbc/gls/cm3/registry
ODBCHOME=/opt/odbc
ODBCINI=/opt/odbc/odbc.ini
ODBC_INI=/opt/odbc/odbc.ini
PATH=/usr/bin/X11:/bin:/usr/bin:/etc:/usr/etc:/usr/contrib/bin:
/users/root:/usr/lib:/usr/lib/acct:/usr/local/bin:./SAG/ada/v22313:/SAG/ada/v22313/tools:/SAG/nat/v41219/bin:/SAG/wcp/v2117:/SAG/wcp/v2117/bin:/SAG/osx/v621/bin:/SAG/aad/v1212/bin:/SAG/esq/v143/tools:./SAG/wcp/ushpux1:/SAG/demoweb/sh:/RDBMS/oracle/app/oracle/orahome/product/9.1/bin:/RDBMS/sybase/bin:/RDBMS/sybase/install:/RDBMS/sybase/include:/opt/odbc/lib:/opt/odbc/bin:/RDBMS/sybase/lib:/RDBMS/sybase/bin:/usr/lib
SHLIB_PATH=/opt/odbc/lib:/RDBMS/sybase/lib:/RDBMS/sybase/bin:/usr/lib
SYBASE=/RDBMS/sybase
SYBASE_TERM=vt220
```

## Sample Informix ODBC Variables

```

INFORMIXDIR=/RDBMS/informix
INFORMIXSERVER=learn_online
IV_GLS_LCDIR=/opt/odbc/gls/lc11
IV_GLS_REGISTRY=/opt/odbc/gls/cm3/registry
ODBCHOME=/opt/odbc ODBCINI=/opt/odbc/odbc.ini
ODBC_INI=/opt/odbc/odbc.ini
ONCONFIG=onconfig.learn
PATH=/usr/bin/X11:/bin:/usr/bin:/etc:/usr/etc:/usr/contrib/bin:
    /users/root:/usr/lib:/usr/lib/acct:/usr/local/bin:./SAG/a
    da/v22313:/SAG/ada/v22313/tools:/SAG/nat/v41219/bin:/SAG/w
    cp/v2117:/SAG/wcp/v2117/bin:/SAG/osx/v621/bin:/SAG/aad/v12
    12/bin:/SAG/esq/v143/tools:./SAG/wcp/
    ushpux1:/SAG/demoweb/sh:/opt/odbc/lib:/opt/odbc/bin:/RDBMS
    /informix/bin
SHLIB_PATH=/opt/odbc/lib:/RDBMS/informix/lib:/RDBMS/informix/li
    b/esql:/RDBMS/informix/bin:/usr/lib
TERM=vt100
TERMCAP=/RDBMS/informix/etc/termcap

```

## IBM DB2 CLI

The current direction chosen for DB2 is to use the IBM DB2 CLI (Call Level Interface).

The following is a sample db2cli.ini file:

```

[sample]
AUTOCOMMIT=0

[tstcli2x]
; Assuming dbalias2 is a database in DB2 for z/OS.
SchemaList='OWNER1','OWNER2',CURRENT SQLID"

[MyVeryLongDBALIASName]
dbalias=dbalias3
SysSchema=MYSHEMA

```

Take special note of the sample database or alias name shown in the db2cli.ini file.

If you encounter the following error, add the AUTOCOMMIT=0 specification to the entries for your specific RDBMS.

```

[IBM] [CLI Driver] [DB2/SUN64] SQL0508N
The cursor specified in the UPDATE or DELETE statement is not positioned on a
row. SQLSTATE=24504.

```