

Command Reference: OpenHydroBase()

Open a connection to a HydroBase database

General Command

Version 3.08.02, 2010-01-06

The `OpenHydroBase()` command opens a connection to a HydroBase database, allowing data to be read from the database. This command is not typically used for interactive sessions but may be inserted to run in batch only mode to allow a specific database and commands files to be distributed.

The following dialog is used to edit this command and illustrates the command syntax. The **Database type** is used to control settings for parameters and is not itself a parameter.

Edit OpenHydroBase() command

This command opens a connection to a HydroBase database, closing the previous connection with the same input name.
This command is used, for example, when making connections to more than one HydroBase database, or running in batch mode.
The RunMode can also be set to control whether the command is run in batch mode, in interactive sessions, or both.
The connection can be made either by specifying a database server/name for SQL Server,
or an ODBC Data Source Name (DSN) for a Microsoft Access HydroBase database (only for very old HydroBase databases).

Database type: Required - indicates whether a database server/name or ODBC DSN is specified below.

Database server: Required - when using SQL Server.

Database name: Required - when using SQL Server.

ODBC DSN: Optional - only used with Microsoft Access.

Input name: Optional - input name for connection, to be used with time series identifiers.

Use stored procedures?: ☒ Optional - default is true for SQL Server, ignored for Access.

Run Mode: Optional - default is GUI and batch mode.

Command:

OpenHydroBase

OpenHydroBase() Command Editor

The command syntax is as follows:

```
OpenHydroBase (Parameter=Value, ...)
```

Command Parameters

Parameter	Description	Default
DatabaseServer	Used with a SQL Server HydroBase. Specify the SQL Server database machine name. A list of choices will be shown, corresponding to properties in the <i>CDSS.cfg</i> configuration file.	Required if a SQL Server database is used, and accepts the generic value <code>DatabaseServer=local</code> , which will automatically be translated to the name of the local computer.
DatabaseName	Used with a SQL Server HydroBase.	HydroBase

Parameter	Description	Default
	The name of the database typically follows a pattern similar to: HydroBase_CO_YYYYMMDD. A list of choices will be shown, corresponding to properties in the <i>CDSS.cfg</i> configuration file.	
OdbcDsn	The ODBC DSN to use for the connection, used only when working with a Microsoft Access database.	Required if a Microsoft Access database is used.
InputName	The input name corresponding to the ~InputType~InputName information in time series identifiers. This is used when more than one HydroBase connection is used in the same command file.	Blank (no input name).
UseStoredProcedures	Used with SQL Server, indicating whether stored procedures are used. Stored procedures are the default and should be used except when testing software.	True (used stored procedures).
RunMode	Indicates when the command should be run, one of: BatchOnly – run the command only in batch mode. GUIOnly – run the command only in GUI mode. GUIAndBatch – run the command in batch and GUI mode.	GUIAndBatch

The following example command file illustrates how to connect to a SQL Server database running on a machine named “sopris”:

```
StartLog(LogFile="Results/Example_OpenHydroBase_DatabaseName.StateDMI.log")
OpenHydroBase(DatabaseServer="sopris",DatabaseName="HydroBase_CO_20060816")
```

Example_OpenHydroBase_DatabaseName