Reading from a data set

You can read from a data set by specifying the pathname of the control file.

About this task

- In the **Output Link Properties Tab** specify the pathname of the control file for the source data set.

- Ensure column meta data has been specified for the data set.

About this task

The methods `GetString()`, `GetInt32()`, `GetDecimal()`, and other methods for all of the available data types are used to extract data from the individual columns of output. The `DB2DataReader`'s `Close()` method is used to close the `DB2DataReader` object, which should always be done when reading the output is finished.

Reading a result set in C#:

```csharp
// assume a DB2DataReader reader
Int16 deptnum = 0;
String location="";

// Output the results of the query
while(reader.Read())
{
   deptnum = reader.GetInt16(0);
   location = reader.GetString(1);
   Console.WriteLine("    " + deptnum
}
reader.Close();
```

Reading a result set in Visual Basic .NET:

```vbnet
' assume a DB2DataReader reader
Dim deptnum As Int16 = 0
Dim location As String ""

' Output the results of the query
Do While (reader.Read())
   deptnum = reader.GetInt16(0)
   location = reader.GetString(1)
   Console.WriteLine("     " & deptnum
Loop
reader.Close();
```

Stage tab

You can specify the following Advanced properties:

- **Execution Mode.** The stage can execute in parallel mode or sequential mode. In parallel mode the contents of the data set are processed by the available nodes as specified in the Configuration file, and by any node constraints specified on the Advanced tab. In Sequential mode the entire contents of the data set are processed by the conductor node.

Input tab

The Input tab allows you to specify details about how data is written to a data set. The data set can have only one input link. The target category for the data set includes the properties `File` and `Update Policy`. While File is the name of the control file for the data set, the Update Policy specifies the action taken if the data set that you are writing to already exists.

Below is a description of each property on the Input tab:

Output tab

In the Output page, you can specify details about how the data set reads data. You can change the default buffer settings for the output link and view the column definitions.

File

> The name of the control file for the data set. You can browse for the file or enter a job parameter. By convention the file has the suffix .ds.

An I/O data set must first be allocated to a d
previously. In fact, it might be better to alloc
order not to interfere with previously establi
the exec runs, or you can allocate from with
shown in the following example.

```
"ALLOC DA(io.data) F(myindd) SHR REUSE"
"EXECIO   *   DISKR   myindd   (FINIS"
```