I need a script written in Microsoft Visual C# 2008 or Microsoft Visual Basic 2008.

Well, we agreed on Microsoft Visual Basic 2008.

I am planning to use this script in the Script Task component of a SSIS package.

The Script should read a user defined SSIS package variable strOrderFilePath.

This variable contains a full path to the Order file.

The user should manually input the full path in the package variable strOrderFilePath.

The Order file is a specification/requirement/order for the script.

It contains execution details for each run.

It describes in details what the script should do.

The Order file contains the following parameters:

Line 1: A full path to the input data file to be evaluated. This is the file a user wants to get information about, the blueprint.

Example:

F:\2014\_Publish\Basketball or Russian Dolls\DataSource\EmployeeFeedBasketball.txt

Line 2: A delimiter used in the file.

For Example: |

Here is a line from a file with a delimiter |:

Peter|Smith|J|NJ

Here is the list of column delimiters a user could use:

Semicolon {;} - The columns are delimited by a semicolon.

Colon {:} - The columns are delimited by a colon.

Comma {,} - The columns are delimited by a comma.

Tab {t} - The columns are delimited by a tab.

Vertical bar {|} - The columns are delimited by a vertical bar.

Line 3:

The user should be able to select column(s) to scan for maximum number of characters.

The user should be able to specify between one, two, several columns, or all.

Space is allowed between column numbers.

The column numbers could be in any order

For Example:

1 – The user wants to scan only the second column

3,5,9 – The user wants to scan the third, fifth, and ninth column

All – The user wants to scan all columns in the input file.

Line 4:  
 If the first row in the Input File has column names, user should put “Yes”, and “No” if no column names in the first row.

The script should skip processing the first line, if the Input file has column names, and the script should process the first line, if the Input file does not have column names. Process in this content means – analyze and take in consideration length of data in the column(s).

The script should read the Order file, scan the selected columns in the Input Data File, and create an Output file where it would put the results of the process.

Example of the Output file:

Scanned columns: 0, 1, 7. The Maximum number of characters in each column is provided below.

0 – 25

1 – 45

7 – 128

The Order file and the Output file are text files.

The file name for Output file should be the Input file name, plus \_BluePrint\_TimeStamp.

For example:

The Input file is EmployeeFeedBasketball.txt

The Output file is EmployeeFeedBasketball\_BluePrint\_2014-06-15\_142547.txt

The Output file is created and stored in the same directory as the Input data file.

Error Handling:

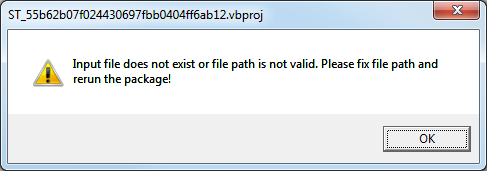
If the format of the Order file is not valid, or information presented in the file is not correct, the script should write a descriptive message and display an Error Message box.

The user should be able to fix invalid parameters based on Error Messages provided by this script.

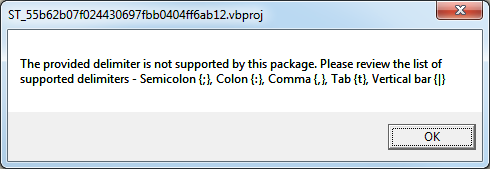
In all cases, the script should run and finish successfully.

The script should report:

1. Line 1: The path to the Order file provided in the varible strOrderFilePath is not valid. Please fix file path and rerun the package.

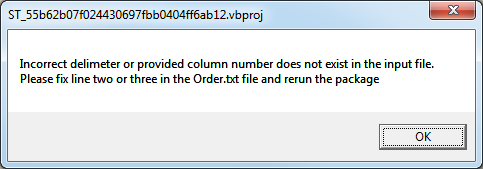


1. Line 2: The provided delimiter is not supported by this package. Please review the list of supported delimiters - Semicolon {;}, Colon {:}, Comma {,}, Tab {t}, Vertical bar {|}. A customer would modify the script to include a new delimiter.

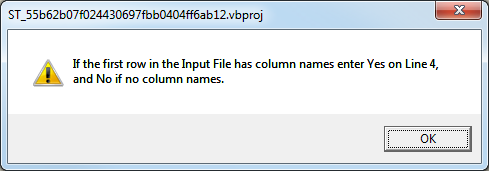


1. Line 3: Incorrect delimeter or provided column number does not exist in the input file. Please fix line two or three in the Order.txt file and rerun

the package. For example, if a customer entered nine and there are only three columns in input data file, the script would stop execution and show the following Error Message box.



1. Line 4: If the first row in the Input File has column names enter “Yes” on Line 4, and “No” if no column names.



A DBA/developer should be able to run the SSIS package on any server/any machine and get information needed to successfully upload a text file.  
All the user needs is to have a Business Intelligence Development Studio.

At this time, we are limiting our article to text files only.

We assume that our user does know SSIS, but no scripting knowledge is necessary.