'Check the total number of file types per export type per mode (cine loop or frame)

'is equal to the total number of file types listed in the software specs (i.e., in Export.xls - FileTypeCount sheet)

Sub Main()

'Import data from "FileTypeCount" sheet

Dim RowCount As Integer

Dim ColumnCount As Integer

Dim FileTypeCount() As String 'Dynamic array stores the data from "FileTypeCount" sheet

RowCount = Function\_ExcelSheetRowCount.ExcelSheetRowCount(ExcelFilePath\_Export, "FileTypeCount")

ColumnCount = Function\_ExcelSheetColumnCount.ExcelSheetColumnCount(ExcelFilePath\_Export, "FileTypeCount")

ReDim FileTypeCount(RowCount, ColumnCount) As String 'Array is sized dynamically

FileTypeCount() = Function\_GetExcelSheetData.GetExcelSheetData(ExcelFilePath\_Export, "FileTypeCount")

'For "FileTypeCount" sheet

Dim Study As String

Dim Series As String

Dim Image As String

Dim ExportType As String 'ExportType

Dim FileType As String 'FileType

Dim i As Integer 'row number in the "FileTypeCount" sheet

Dim Count As Integer

'Define counters

Dim AppNo As Integer

Dim ExcelNo As Integer

Dim m As Integer

'Open Vevo2100 workstation

ProgramManagerWindow("Application=EXPLORER.EXE Caption='Program Manager'").Attach

ListView("Index=1").Select "Vevo 2100", tpMouseDoubleClick

Pause 3, tpPauseSeconds 'Pause 3 seconds to wait for the workstation to open

For i = 2 To RowCount 'First Line is Header Line

Study = FileTypeCount(i, 1)

Series = FileTypeCount(i, 2)

Image = FileTypeCount(i, 3)

ExportType = FileTypeCount(i, 4)

FileType = FileTypeCount(i, 5)

'Attach to VisualSonics Vevo 2100

Window(Vevo).Attach

'Expand the Study in the Study Browser

If i = 2 Or FileTypeCount(i, 1) <> FileTypeCount(i - 1, 1) Then

'If can not find the Series, then the Study needs to be expanded

If ListView("Parent.Caption='Study Browser'").FindItem(Series) = 0 Then

ListView("Parent.Caption='Study Browser'").Select (Study), tpMouseDoubleClick

End If

End If

'Expand the Series in the Study Browser

If i = 2 Or FileTypeCount(i, 2) <> FileTypeCount(i - 1, 2) Then

'If the mode column (i.e., the 6th column in the "Study Browser") of the row after Series is empty

'then the row is either a Series or a Study

'the Series needs to be expanded to see all the Images

Count = ListView("Parent.Caption='Study Browser'").FindItem(Series)

If ListView("Parent.Caption='Study Browser'").GetItem(Count + 1, 6) = "" Then

ListView("Parent.Caption='Study Browser'").Select (Series), tpMouseDoubleClick

End If

End If

'Select the Image from Study Browser, then open the "Export Image" browser

If i = 2 Or FileTypeCount(i, 3) <> FileTypeCount(i - 1, 3) Then

'Search to select the Image in between the Series and next Series/Study

Do While ListView("Parent.Caption='Study Browser'").GetItem(Count + 1, 6) <> ""

If ListView("Parent.Caption='Study Browser'").GetItem(Count + 1, 6) = Image Then

ListView("Parent.Caption='Study Browser'").SelectIndex (Count + 1) 'Select the Image from Study Browser

Button("Caption=&Export").Click 'Open the "Export Image" browser

Exit Do

Else

Count = Count + 1

End If

Loop

End If

'In the the "Export Image" browser, select "Export Type" then count "File Types" (stores in AppNo)

'Count "File Types" in the Export.xls "FilyTypeCount" sheet (stores in ExcelNo)

'Compare AppNo and ExcelNo

If i = 2 Or FileTypeCount(i, 4) <> FileTypeCount(i - 1, 4) Or (FileTypeCount(i, 2) = "FH\_3D" And FileTypeCount(i, 3) <> FileTypeCount(i - 1, 3)) Then

'In the the "Export Image" browser, select "Export Type" then count "File Types"

AppNo = 0

'Select "Export Type"

If ExportType = "Cine Loop" Then

RadioButton("Caption='&" & ExportType & "'").Click

Else

RadioButton("Caption=&" & ExportType).Click

End If

'Count "File Types"

AppNo = ComboBox("Label='File Type'").Items.Count

'Count "File Types" in the Export.xls "FilyTypeCount" sheet

ExcelNo = 0

m = i

If i = 2 Then

Do

ExcelNo = ExcelNo + 1

m = m + 1

Loop While FileTypeCount(m, 4) = FileTypeCount(m + 1, 4)

ExcelNo = ExcelNo + 1

ElseIf FileTypeCount(i, 4) <> FileTypeCount(i - 1, 4) And FileTypeCount(i, 2) <> "FH\_3D" Then

Do

ExcelNo = ExcelNo + 1

If m < RowCount Then

m = m + 1

Else

Exit Do

End If

Loop While FileTypeCount(m, 4) = FileTypeCount(m - 1, 4)

Else

Do

ExcelNo = ExcelNo + 1

If m < RowCount Then

m = m + 1

Else

Exit Do

End If

Loop While FileTypeCount(m, 3) = FileTypeCount(m - 1, 3)

End If

'Compare AppNo and ExcelNo

If AppNo = ExcelNo Then

UserCheck "CheckExportFileTypeNumber", True, "row" & i & " to row" & i + ExcelNo - 1 & "\_\_The " & Image & " " & Replace(Series, "FH\_", "") & " (ExportType = " & ExportType & ") has " & AppNo & " File Types listed in the Export Image browser and " & ExcelNo & " File Types listed in the Spec."

Else

UserCheck "CheckExportFileTypeNumber", False, "row" & i & " to row" & i + ExcelNo - 1 & "\_\_The " & Image & " " & Replace(Series, "FH\_", "") & " (ExportType = " & ExportType & ") has " & AppNo & " File Types listed in the Export Image browser but " & ExcelNo & " File Types listed in the Spec."

End If

End If

'In the the "Export Image" browser, choose "File Type"

On Error GoTo ErrorHandlerA

ComboBox("Label='File Type'").Select FileType

On Error GoTo 0

'Cancle "Export Image" browser to switch back to Study Browser

If i <> 2 And i <> RowCount Then

If FileTypeCount(i, 3) <> FileTypeCount(i + 1, 3) Then

Button("Caption=Cancel").Click

End If

End If

JumpA:

Next

'Close application to reset its original state

Window.Close

'Erase array

Erase FileTypeCount

Exit Sub

ErrorHandlerA:

UserCheck "SelectFileType", False, "row" & i & "\_\_The File Type " & FileType & " of " & Image & " " & Replace(Series, "FH\_", "") & " (ExportType = " & ExportType & ") can not be selected from the Export Image browser."

Resume JumpA

End Sub