

RE: FileSearch to locate the latest (last saved) file

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Source:

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- *From:* Joel <Joel@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 28 Jan 2008 17:00:01 -0800
-

My original code was not complete. It was just to get you started. I made a few more changes, see if this helps

```
Sub SrchForFiles()
```

```
Dim i As Long, z As Long, Rw As Long
Dim sReport As Workbook, sDashboard As Workbook
Dim ws As Worksheet, pat As Workbook
Dim sRpt As Object, dPt As Object
Dim y As Variant
Dim fLdr As String, Fil As String, FPath As String, x As String, _
pname As String, NumFound As String
Dim FileDates As Variant
```

```
Set fs = CreateObject("Scripting.FileSystemObject")
```

```
Wks_delete ' Delete old worksheets
ClearContents
```

```
y = "Sts*.xls"
If y = False And Not TypeName(y) = "String" Then Exit Sub
Application.ScreenUpdating = False
fLdr = dirPath '.SelectedItems(1)
Set sDashboard = ThisWorkbook
```

```
With Application.FileSearch
.NewSearch
.LookIn = fLdr
.SearchSubFolders = True
.FileName = y
Set ws = ThisWorkbook.Worksheets("Dashboard")
On Error GoTo 1
2:
On Error GoTo 0
NumFound = .Execute(msoSortByLastModified, msoSortOrderAscending, _
True)
If NumFound > 0 Then
NewestFile = .FoundFiles.Count 'NewestFile = FilesFound(1)
```

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```
ReDim FileDates(NewestFile, 4)
'get array to sort
For i = 1 To NewestFiles
Myfile = fs.GetFile(.FoundFiles(i))
FileDates(i, 1) = Myfile.Date
FileDates(i, 2) = Myfile.getfilename(Myfile.Name)
FileDates(i, 3) = i 'keep index number to use after sort
FileDates(i, 4) = False 'boolean indicating if latest
Next i
'sort by date newest to oldest
For i = 1 To (NewestFiles - 1)
For j = (i + 1) To NewestFiles
If FileDates(j, 1) > FileDates(i, 1) Then
temp = FileDates(i, 1)
FileDates(i, 1) = FileDates(j, 1)
FileDates(j, 1) = temp

temp = FileDates(i, 2)
FileDates(i, 2) = FileDates(j, 2)
FileDates(j, 2) = temp

temp = FileDates(i, 3)
FileDates(i, 3) = FileDates(j, 3)
FileDates(j, 3) = temp

temp = FileDates(i, 4)
FileDates(i, 4) = FileDates(j, 4)
FileDates(j, 4) = temp

End If
Next j
Next i

'sort by filename
For i = 1 To (NewestFiles - 1)
For j = (i + 1) To NewestFiles
If FileDates(j, 1) > FileDates(i, 1) Then
temp = FileDates(i, 1)
FileDates(i, 1) = FileDates(j, 1)
FileDates(j, 1) = temp

temp = FileDates(i, 2)
FileDates(i, 2) = FileDates(j, 2)
FileDates(j, 2) = temp

temp = FileDates(i, 3)
FileDates(i, 3) = FileDates(j, 3)
FileDates(j, 3) = temp

temp = FileDates(i, 4)
FileDates(i, 4) = FileDates(j, 4)
```

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```
FileDates(j, 4) = temp

End If
Next j
Next i

'determine latest file
'first entry is always the latest
FileDates(1, 4) = True
For i = 2 To NewestFiles
If FileDates(i, 2) <> FileDates(i - 1, 2) Then
FileDates(i, 4) = True
End If
Next
'the latest files are the ones with True in index 4
'index 3 is the index number in foundfiles

For i = 1 To NewestFile
' NewestFile = .FoundFiles(1)
' Fil = .FoundFiles(i)
' Fil = NewestFile
'Get file path from file name
' FPath = Left(Fil, Len(Fil) - Len(Split(Fil, _
"""\")(UBound(Split(Fil, ""\")))) - 1)

' If Left$(Fil, 1) = Left$(fLdr, 1) Then
' If CBool(Len(Dir(Fil))) Then
' x = (Array(Dir(Fil))(0))
' End If
If FileDates(i, 4) = True Then
Set sReport = Workbooks.Open(.FoundFiles(FileDates(i,
3)), _
UpdateLinks:=0)

' DelFormula

sReport.Worksheets(1).Copy _
After:=sDashboard.Sheets(sDashboard.Sheets.Count)
ActiveSheet.Name = sReport.Name & "(" & i & ")"

If FileDates(i, 3) = 1 Then
z = 7
Else
z = z + 1
End If
Worksheets("Dashboard").Range("A" & z).Value = _
Worksheets(ActiveSheet.Name).Range("staPrgNum").Value
Worksheets("Dashboard").Range("B" & z).Value = _
Worksheets(ActiveSheet.Name).Range("staPrgName").Value
Worksheets("Dashboard").Range("C" & z).Value = _
Worksheets(ActiveSheet.Name).Range("staPrgMgr").Value
```

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```
Worksheets("Dashboard").Range("D" & z).Value = _  
Worksheets(ActiveSheet.Name).Range("staDelDate").Value  
Worksheets("Dashboard").Range("F" & z).Value = _  
Worksheets(ActiveSheet.Name).Range("TotVariance").Value  
Worksheets("Dashboard").Range("G" & z).Value = _  
Worksheets(ActiveSheet.Name).Range("CompPct").Value  
Worksheets("Dashboard").Range("Q" & z).Value = _  
Worksheets(ActiveSheet.Name).Range("CompPct").Value  
sReport.Close SaveChanges = False  
Worksheets(ActiveSheet.Name).Select  
Worksheets(ActiveSheet.Name).Visible = False  
Sheets("Dashboard").Select  
ws.Hyperlinks.Add Range("a" & z), Address:="", _  
SubAddress:="Dashboard!A" & z  
End If  
Next i  
End If  
End With
```

```
ActiveWindow.DisplayHeadings = False  
Application.ScreenUpdating = True  
Exit Sub  
1: Application.DisplayAlerts = False  
Worksheets("FileSearch Results").Delete  
Application.DisplayAlerts = True  
GoTo 2  
End Sub
```

'+++++

```
Sub Wks_delete()  
Dim i As Integer  
  
Application.ScreenUpdating = False  
Application.DisplayAlerts = False  
For i = ActiveWorkbook.Worksheets.Count To 1 Step -1  
If Worksheets(i).Name <> "Dashboard" Then _  
Worksheets(i).Delete  
Next i  
Application.ScreenUpdating = True  
Application.DisplayAlerts = True  
End Sub
```

'+++++

```
Sub ClearContents()  
Dim rng As Range  
Set rng = Range("A7:D70")  
rng.ClearContents  
Set rng = Range("F7:Q70")  
rng.ClearContents  
End Sub
```

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"Patrick Kirk" wrote:

Joel,

No luck, I continue to experience the problem of showing all documents not just the latest modified/updated.

Example:

R00276 Sdfasdf George Jeffers 1-Jan-01 0 77%
R00287 D Nick Bush 1-Jan-01 0 91%
R00291 Sdadas William Clinton 1-Jan-01 450 40%
R00294 S Nick Bush 1-Jan-01 0 64%
R00307 Ies Tactics Nick Bh 1-Jan-02 500 40%
R00291 Sdadas William Clinton 1-Jan-01 450 40%

My filesearch searches for "Sts*.xls". The document names are:
StsRpt_R00291_26Jan08.xls & StsRpt_R00291_27Jan08.xls; both might be in the same directory or different directories.

Is there a way to only show the last modified file of each instance found?

--

PK

"Joel" wrote:

I added some code that may help. Because each file is in a different directory you must take all the file information and perform a sort. I created an array to put all this information so you can perform a sort. After the sort I added a section which determines the latest file by marking the file true

Note: getfilename extracts just the filename from the path.

Let me know if you have any questions. the code is a little complicated.

Sub SrchForFiles()

Dim i As Long, z As Long, Rw As Long
Dim sReport As Workbook, sDashboard As Workbook
Dim ws As Worksheet, pat As Workbook
Dim sRpt As Object, dPt As Object
Dim y As Variant
Dim fLdr As String, Fil As String, FPath As String, x As String, _
pname As String, NumFound As String
Dim FileDates As Variant

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```
Set fs = CreateObject("Scripting.FileSystemObject")

Wks_delete ' Delete old worksheets
ClearContents

y = "Sts*.xls"
If y = False And Not TypeName(y) = "String" Then Exit Sub
Application.ScreenUpdating = False
fLdr = dirPath '.SelectedItems(1)
Set sDashboard = ThisWorkbook

With Application.FileSearch
.NewSearch
.LookIn = fLdr
.SearchSubFolders = True
.FileName = y
Set ws = ThisWorkbook.Worksheets("Dashboard")
On Error GoTo 1
2:
On Error GoTo 0
NumFound = .Execute(msoSortByLastModified, msoSortOrderAscending, _
True)
If NumFound > 0 Then
NewestFile = .FoundFiles.Count 'NewestFile = FilesFound(1)
ReDim FileDates(NewestFile, 4)
'get array to sort
For i = 1 To NewestFiles
Myfile = fs.GetFile(.FoundFiles(i))
FileDates(i, 1) = Myfile.Date
FileDates(i, 2) = Myfile.getfilename(Myfile.Name)
FileDates(i, 3) = i 'keep index number to use after sort
FileDates(i, 4) = False 'boolean indicating if latest
Next i
'sort by date newest to oldest
For i = 1 To (NewestFiles - 1)
For j = (i + 1) To NewestFiles
If FileDates(j, 1) > FileDates(i, 1) Then
temp = FileDates(i, 1)
FileDates(i, 1) = FileDates(j, 1)
FileDates(j, 1) = temp

temp = FileDates(i, 2)
FileDates(i, 2) = FileDates(j, 2)
FileDates(j, 2) = temp

temp = FileDates(i, 3)
FileDates(i, 3) = FileDates(j, 3)
FileDates(j, 3) = temp

temp = FileDates(i, 4)
```

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```
FileDates(i, 4) = FileDates(j, 4)
FileDates(j, 4) = temp
```

```
End If
Next j
Next i
```

```
'sort by filename
For i = 1 To (NewestFiles - 1)
For j = (i + 1) To NewestFiles
If FileDates(j, 1) > FileDates(i, 1) Then
temp = FileDates(i, 1)
FileDates(i, 1) = FileDates(j, 1)
FileDates(j, 1) = temp
```

```
temp = FileDates(i, 2)
FileDates(i, 2) = FileDates(j, 2)
FileDates(j, 2) = temp
```

```
temp = FileDates(i, 3)
FileDates(i, 3) = FileDates(j, 3)
FileDates(j, 3) = temp
```

```
temp = FileDates(i, 4)
FileDates(i, 4) = FileDates(j, 4)
FileDates(j, 4) = temp
```

```
End If
Next j
Next i
```

```
'determine latest file
'first entry is always the latest
FileDates(1, 4) = True
For i = 2 To NewestFiles
If FileDates(i, 2) <> FileDates(i - 1, 2) Then
FileDates(i, 4) = True
End If
Next
```

```
'the latest files are the ones with True in index 4
'index 3 is the index number in foundfiles
```

```
For i = 1 To NewestFile
NewestFile = .FoundFiles(1)
Fil = .FoundFiles(i)
Fil = NewestFile
'Get file path from file name
FPath = Left(Fil, Len(Fil) - Len(Split(Fil, _
"\")(UBound(Split(Fil, "\")))) - 1)
```

```
If Left$(Fil, 1) = Left$(fLdr, 1) Then
```

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```
If CBool(Len(Dir(Fil))) Then
x = (Array(Dir(Fil)))(0)
End If
Set sReport = Workbooks.Open(.FoundFiles(i), _
UpdateLinks:=0)

' DelFormula

sReport.Worksheets(1).Copy _
After:=sDashboard.Sheets(sDashboard.Sheets.Count)
ActiveSheet.Name = sReport.Name & "(" & i & ")"

If i = 1 Then
z = 7
Else
z = z + 1
End If
Worksheets("Dashboard").Range("A" & z).Value = _
Worksheets(ActiveSheet.Name).Range("staPrgNum").Value
Worksheets("Dashboard").Range("B" & z).Value = _
Worksheets(ActiveSheet.Name).Range("staPrgName").Value
Worksheets("Dashboard").Range("C" & z).Value = _
Worksheets(ActiveSheet.Name).Range("staPrgMgr").Value
Worksheets("Dashboard").Range("D" & z).Value = _
Worksheets(ActiveSheet.Name).Range("staDelDate").Value
Worksheets("Dashboard").Range("F" & z).Value = _
Worksheets(ActiveSheet.Name).Range("TotVariance").Value
Worksheets("Dashboard").Range("G" & z).Value = _
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Worksheets("Dashboard").Range("Q" & z).Value = _
Worksheets(ActiveSheet.Name).Range("CompPct").Value
sReport.Close SaveChanges = False
Worksheets(ActiveSheet.Name).Select
Worksheets(ActiveSheet.Name).Visible = False
Sheets("Dashboard").Select
ws.Hyperlinks.Add Range("a" & z), Address:="", _
SubAddress:="Dashboard!A" & z
End If
Next i
End If
End With

ActiveWindow.DisplayHeadings = False
Application.ScreenUpdating = True
Exit Sub
1: Application.DisplayAlerts = False
Worksheets("FileSearch Results").Delete
Application.DisplayAlerts = True
GoTo 2
End Sub
```

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'+++++

```
Sub Wks_delete()  
Dim i As Integer  
  
Application.ScreenUpdating = False  
Application.DisplayAlerts = False  
For i = ActiveWorkbook.Worksheets.Count To 1 Step -1  
If Worksheets(i).Name <> "Dashboard" Then _  
Worksheets(i).Delete  
Next i  
Application.ScreenUpdating = True  
Application.DisplayAlerts = True  
End Sub
```

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Sub ClearContents()  
Dim rng As Range  
Set rng = Range("A7:D70")  
rng.ClearContents  
Set rng = Range("F7:Q70")  
rng.ClearContents  
End Sub
```

"Patrick Kirk" wrote:

I am attempting to utilize the .FileSearch operation to search for certain file(s) within a pre-defined directory and all subdirectories. The below scripts will copy all worksheets of the workbook found to a main workbook and list the findings in a worksheet. The problem is if there are two files beginning with the search criteria, (ex: R00291 or R00294) it will display all files.

How do I change the code to find only the latest (last created) file?

Output Once script is

```
ran!+++++  
R00263 Asdf George Jeffer 1-Jan-01 0 43%  
R00276 Sdfasdf George Jeffer 1-Jan-01 0 77%  
R00291 Sdafas William Clinton 1-Jan-01 0 40%  
R00294 S Nick Bush 1-Jan-01 0 64%  
R00287 D Nick Bush 1-Jan-01 0 91%  
R00294 S Nick Bush 1-Jan-01 0 64%  
R00291 Sdafas William Clinton 1-Jan-01 0 40%
```

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R00291 Sdafas William Clinton 1-Jan-01 450 40%
R00291 Sdafas William Clinton 1-Jan-01 450 40%

+++++

Sub SrchForFiles()

Dim i As Long, z As Long, Rw As Long
Dim sReport As Workbook, sDashboard As Workbook
Dim ws As Worksheet, pat As Workbook
Dim sRpt As Object, dPt As Object
Dim y As Variant
Dim fLdr As String, Fil As String, FPath As String, x As
String, pname
As String, NumFound As String

Wks_delete ' Delete old worksheets
ClearContents

y = "Sts*.xls"
If y = False And Not TypeName(y) = "String" Then Exit Sub
Application.ScreenUpdating = False
fLdr = dirPath '.SelectedItems(1)
Set sDashboard = ThisWorkbook

With Application.FileSearch
.NewSearch
.LookIn = fLdr
.SearchSubFolders = True
.Filename = y
Set ws = ThisWorkbook.Worksheets("Dashboard")
On Error GoTo 1
2:
On Error GoTo 0
NumFound = .Execute(msoSortByLastModified,
msoSortOrderAscending,
True)
If NumFound > 0 Then
NewestFile = .FoundFiles.Count 'NewestFile =
FilesFound(1)
For i = 1 To NewestFile
NewestFile = .FoundFiles(1)
'Fil = .FoundFiles(i)
Fil = NewestFile
'Get file path from file name
FPath = Left(Fil, Len(Fil) - Len(Split(Fil,
"\")(UBound(Split(Fil, "\")))) - 1)

If Left\$(Fil, 1) = Left\$(fLdr, 1) Then

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```
If CBool(Len(Dir(Fil))) Then  
x = (Array(Dir(Fil))(0))  
End If  
Set sReport = Workbooks.Open(.FoundFiles(i),  
UpdateLinks:=0)
```

DelFormula

sReport.Worksheets(1).Copy