Subject: Re: FindFile for more than one filetype
Posted by Richard Tyc on Thu, 20 Dec 2001 21:03:23 GMT
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> for yr = 1981, 2000 do begin
>
How about something real simple like this to replace AND:

```
filelist = FINDFILE(outpath + string(yr, FORMAT = '(I4.4)')
  + '*'+ '_average.int', COUNT=filecount)
if filecnt NE 1 then break;

filelist = [ filelist,  FINDFILE(outpath + string(yr+1, FORMAT = '(I4.4)')
  + '*'+ '_average.int', COUNT=filecount)  ]
if filecnt NE 1 then break;
```

> endfor

Rich

Subject: Re: FindFile for more than one filetype
Posted by Paul van Delst on Thu, 20 Dec 2001 21:05:18 GMT
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Sue wrote:
>
> Hello,
>
> I have a folder full of *_average.int files where the * represents
> different years (1981-2000).
>
> I am trying to make it so that my variable, filelist, equals two
> files: (1)1981_average.int and (2)1982_average.int and then the next
> time, filelist equals: (1)1982_average.int and (2)1983_average.int and
> so on. It is also important that I get the filecount to equal 2.
>
> However, I can not figure out how to do it using the FindFile function
> using the IDL language.
>
> This is what I have so far...(of course there is other stuff in btwn)
>
> for yr = 1981, 2000 do begin
>
> filelist = FINDFILE(outpath + string(yr, FORMAT = '(I4.4)')
> + '*'+ '_average.int', COUNT=filecount)
> and
> FINDFILE(outpath + string(yr+1, FORMAT = '(I4.4)')+ '*'

> + '_average.int', COUNT=filecount)
>
> endfor
>
> trying to use the "AND" here gives me an error about how strings can
> not be used in this way or something but I left the code up here so
> that the concept of what I want to achieve is clear.
>
> Thanks.
> Sue

Why not do:

```
; -- Get the list of all the files you want
all_files = FINDFILE( outpath + '*_average.int', COUNT = n_files )

; -- Set the start year
start_year = 1981L

; -- Loop over blocks of two files
FOR i = 0L, n_files - 2L DO BEGIN

  ; -- Indices for the two files you want
  index = [ i, i+1 ]

  ; -- Years for the two files you want
  year = LONG( index ) + start_year

  ; -- Pluck 'em out
  filelist = all_files[ index ]

  ; -- Do stuff with 'em
  ......

ENDFOR
```

Will this work? The files should be in the correct order since their prefix is the year number - but you might want to do a sort anyway to check before you enter the loop. You can also extract out the year from the file name string if needs be but adding the index seems to be easier.

paulv

--
Paul van Delst Religious and cultural
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Subject: Re: FindFile for more than one filetype
Posted by Martin Downing on Fri, 21 Dec 2001 09:42:48 GMT
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> Sue wrote:
>>
>> filelist = FINDFILE(outpath + string(yr, FORMAT = '(I4.4)')
>> + '*'+ '_average.int', COUNT=filecount)
>> and
>> FINDFILE(outpath + string(yr+1, FORMAT = '(I4.4)')+ '*'
>> + '_average.int', COUNT=filecount)
>>
>> trying to use the "AND" here gives me an error about how strings can
>> not be used in this way or something but I left the code up here so
>> that the concept of what I want to achieve is clear.
>>

Hi Sue,
You were close, but since findfile returns a single string or a sting array
for multiple files, what you want to do is add the two result together into
a composite string array:
ie: composite_result = [result1, result2]

filelist = [FINDFILE(outpath + string(yr, FORMAT = '(I4.4)') +
'*_average.int', COUNT=filecount1), $
FINDFILE(outpath + string(yr+1, FORMAT = '(I4.4)')+
'*_average.int', COUNT=filecount2)]

then test filecount1 and filecount2 seperately for your error checking:

if (filecount1 ne 1) and (filecount2 ne 1) then message, "one or more
files missing" ; or whatever

cheers

Martin

> "Paul van Delst" <paul.vandelst@noaa.gov> wrote in message
news:3C22528E.AFE25B1B@noaa.gov...
> Why not do:
>
> ; -- Get the list of all the files you want
> all_files = FINDFILE(outpath + '*_average.int', COUNT = n_files)
>
> ; -- Set the start year
> start_year = 1981L
>
> ; -- Loop over blocks of two files
> FOR i = 0L, n_files - 2L DO BEGIN

>
>   ; -- Indices for the two files you want
>   index = [i, i+1]
>
>   ; -- Years for the two files you want
>   year = LONG(index) + start_year
>
>   ; -- Pluck 'em out
>   filelist = all_files[index]
>
>   ; -- Do stuff with 'em
>   ......
>
>   ENDFOR
>
> Will this work? The files should be in the correct order since their prefix is the year number
> - but you might want to do a sort anyway to check before you enter the loop. You can also
> extract out the year from the file name string if needs be but adding the index seems to be
> easier.
>
> paulv

Paul,

I agree you should do a sort, but the potential weakness of this method is that it assumes the file list is both complete and does not contain any extra files. For instance, if year 1982 was missing, 1981 would be grouped with 1983. Also , if someone has inserted 1982a_average.int into the directory then there will similarly be problems.

Martin

Subject: Re: FindFile for more than one filetype
Posted by sargum_manley on Fri, 21 Dec 2001 16:09:35 GMT
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"Richard Tyc" <richt@sbrc.umanitoba.ca> wrote in message news:<9vtjoammt1@canopus.cc.umanitoba.ca>...
>> for yr = 1981, 2000 do begin
>>
> How about something real simple like this to replace AND:
>
> filelist = FINDFILE(outpath + string(yr, FORMAT = '(I4.4)')
>   + '*'+ '_average.int', COUNT=filecount)

> if filecnt NE 1 then break;
>
> filelist = [filelist, FINDFILE(outpath + string(yr+1, FORMAT = '(I4.4)')
>   + '*'+ '_average.int', COUNT=filecount)]
> if filecnt NE 1 then break;
>
>> endfor
>
> Rich

I tried this and for some reason the filecount still equals 1, instead
of 2. Interestingly enough, when I print filelist...I do get two
files. Any ideas?
--Sue

Subject: Re: FindFile for more than one filetype
Posted by James Kuyper Jr. on Fri, 21 Dec 2001 17:41:17 GMT
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Sue wrote:

> "Richard Tyc" <richt@sbrc.umanitoba.ca> wrote in message
news:<9vtjoammt1@canopus.cc.umanitoba.ca>...
>
>>> for yr = 1981, 2000 do begin
>>>
>>
>> How about something real simple like this to replace AND:
>>

>> filelist = FINDFILE(outpath + string(yr, FORMAT = '(I4.4)')
>>   + '*'+ '_average.int', COUNT=filecount)
>> if filecnt NE 1 then break;

Change to:

 if filecount NE 1 then break;
 totalcnt = filecount

>>
>> filelist = [filelist, FINDFILE(outpath + string(yr+1, FORMAT = '(I4.4)')
>>   + '*'+ '_average.int', COUNT=filecount)]
>> if filecnt NE 1 then break;

Change to:

 if filecount NE 1 then break;

totalcnt = totalcnt + filecount;

>>
>>
>>> endfor
>>
>> Rich
>
> ---------
> I tried this and for some reason the filecount still equals 1, instead
> of 2. Interestingly enough, when I print filelist...I do get two
> files. Any ideas?
> --Sue

With the given changes, filecount will still be 1, but totalcnt will now
have the value of 2, as you expected.
