
Subject: How to pass NCDF files name to text files names?

Posted by [d.poreh](#) on Wed, 29 Sep 2010 12:05:16 GMT

[View Forum Message](#) <> [Reply to Message](#)

Folks

I am reading some NCDF files like this:

```
pathName="d:\p\"
```

```
List = findfile(pathName+"*.nc")
```

```
nosFiles=N_ELEMENTS(List)
```

```
data = ptrarr(nosFiles)
```

```
for i = 0, nosFiles - 1 do begin
```

```
ncid = NCDF_OPEN(list[i])
```

```
NCDF_VARGET, ncid, 0, lon
```

```
NCDF_VARGET, ncid, 1, lat
```

```
NCDF_VARGET, ncid, 2, concentration
```

```
NCDF_CLOSE, ncid ; Close the NetCDF file
```

*Here I need to save all of my files (in text format) in arrays with 3 columns and with name of NCDF file that I am reading (for instance:

L3b_20070716.txt, L3b_20070717 and so on)*

```
Endfor
```

In another word I need to pass my NCDF files name to text files names.

I don't know how. Will you please help me?

Cheers,

Dave

Subject: Re: How to pass NCDF files name to text files names?

Posted by [Cameron Homeyer](#) on Thu, 30 Sep 2010 13:06:34 GMT

[View Forum Message](#) <> [Reply to Message](#)

In article

<eed8d361-81dc-4c81-926f-23e78bd74d6f@28g2000yqm.googlegroups.com>,

Dave Poreh <d.poreh@gmail.com> wrote:

> Folks

> I am reading some NCDF files like this:

```
> pathName="d:\p\"
```

```
> List = findfile(pathName+"*.nc")
```

```
> nosFiles=N_ELEMENTS(List)
```

```
> data = ptrarr(nosFiles)
```

```
> for i = 0, nosFiles - 1 do begin
```

```
> ncid = NCDF_OPEN(list[i])
```

```
> NCDF_VARGET, ncid, 0, lon
```

```
> NCDF_VARGET, ncid, 1, lat
```

```
> NCDF_VARGET, ncid, 2, concentration
```

```
> NCDF_CLOSE, ncid ; Close the NetCDF file
```

> *Here I need to save all of my files (in text format) in arrays with 3

> columns and with name of NCDF file that I am reading (for instance:

> L3b_20070716.txt, L3b_20070717 and so on)*
> Endfor
> In another word I need to pass my NCDF files name to text files names.

> Cheers,
> Dave

I do this often and it is pretty easy to accomplish using STRING operators. You can use something like this for the code above:

```
txt_list = STRARR(nosFiles)
```

```
FOR i = 0, nosFiles -1 DO $  
  txt_list[i] = STRMID(list[i], STRLEN(pathName), STRLEN(list[i]) - $  
    STRLEN(pathName) - 2) + 'txt'
```

Keep in mind, these do not have path names on them, but you can add those in the OPENW.

Cheers,
Cameron

Subject: Re: How to pass NCDF files name to text files names?
Posted by [David Fanning](#) on Thu, 30 Sep 2010 13:36:28 GMT
[View Forum Message](#) <> [Reply to Message](#)

Cameron Homeyer writes:

> I do this often and it is pretty easy to accomplish using STRING
> operators. You can use something like this for the code above:
>
> txt_list = STRARR(nosFiles)
>
> FOR i = 0, nosFiles -1 DO \$
> txt_list[i] = STRMID(list[i], STRLEN(pathName), STRLEN(list[i]) - \$
> STRLEN(pathName) - 2) + 'txt'
>
> Keep in mind, these do not have path names on them, but you can add
> those in the OPENW.

Oh, I see what he was talking about. I usually do this with FSC_Base_Filename like this:

```
outputFiles = StrArr(nosFiles)  
FOR j=0,nosFiles-1 DO BEGIN  
  rootname = FSC_Base_Filename(list[j])  
  outputFiles[j] = Filepath(ROOT_DIR=outputDir, rootname + '.txt')
```

ENDFOR

You can find FSC_Base_Filename here.

http://www.dfanning.com/programs/fsc_base_filename.pro

You could also use the IDL routine FILE_BASENAME in this case.

```
rootname = File_Basename(list[i], '.nc')
```

I just find the features of FSC_Base_Filename more amenable to what I am trying to do, usually.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
