
Subject: how to link the strname with the same name of variables

Posted by [mengran](#) on Tue, 14 Jul 2009 00:35:00 GMT

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Hi,everyone.

I want to output a batch of variables to different files, and the variable names like c1, c2,c3,,,,. I use the arrstring to save the variable names and get the real variable data from different bands of a image. The problem confused me is that it is not possible to output the variable in a for loop, although the elements of strarr have the same name as the true variable names. There must be some skills that I do not know, could you tell them to me please?Thanks a lot!

best wishes,

mengran

```
pro sub_test
```

```
Path_08 = 'D:\mengr_2\spot_vege\2008_byte\project_pof'
```

```
Path_99 = 'D:\mengr_2\spot_vege\1999_byte\project_pof'
```

```
out_path='D:\mengr_2\sub'
```

```
outFl = strarr(5) & ref = strarr(5)
```

```
for i=1,5 do begin
```

```
  outFl[i-1] = strjoin([out_path, strtrim(string(i), 2), '.img']) ;the  
full path of output files
```

```
; outh = strjoin([out_path, strtrim(string(i), 2)])
```

```
  ref[i-1] = strjoin(['c', strtrim(string(i), 2)]) ; the output  
variable names
```

```
endfor
```

```
;get the data to variables
```

```
envi_open_file,Path_08,r_fid = fid1
```

```
envi_file_query,fid1,nb = nb1, ns = ns1, nl = nl1, dims = dims1
```

```
a1 = ENVI_GET_DATA(fid = fid1,pos = [0], dims = dims1)
```

```
a2 = ENVI_GET_DATA(fid = fid1,pos = [1], dims = dims1)
```

```
a3 = ENVI_GET_DATA(fid = fid1,pos = [3], dims = dims1)
```

```
a4 = ENVI_GET_DATA(fid = fid1,pos = [5], dims = dims1)
```

```
a5 = ENVI_GET_DATA(fid = fid1,pos = [7], dims = dims1)
```

```
map_info = envi_get_map_info(fid = fid1)
```

```
proj = ENVI_GET_PROJECTION(FID = fid1)
```

```
envi_open_file,Path_99,r_fid = fid2
```

```
envi_file_query,fid2,nb = nb2, ns = ns2, nl = nl2, dims = dims2,
```

```
INTERLEAVE = INTERLEAVE
```

```
b1 = ENVI_GET_DATA(fid = fid2,pos = [0], dims = dims2)
```

```
b2 = ENVI_GET_DATA(fid = fid2,pos = [1], dims = dims2)
```

```
b3 = ENVI_GET_DATA(fid = fid2,pos = [3], dims = dims2)
```

```
b4 = ENVI_GET_DATA(fid = fid2,pos = [5], dims = dims2)
```

```
b5 = ENVI_GET_DATA(fid = fid2,pos = [7], dims = dims2)
```

```
c1 = fltarr(ns1,nl1) & c2 = fltarr(ns1,nl1)& c3 = fltarr(ns1,nl1)& c4  
= fltarr(ns1,nl1)& c5 = fltarr(ns1,nl1)
```

```
for k = 0,ns1-1 do begin
```

```

    for j = 0,nl1-1 do begin
        do something
    endfor
endfor

for i=0,4 do begin
    openw,unit,outFl[i],/get_lun
    writeu,unit,ref[i] ;only can output the string but not the real
data
    free_lun,unit
    ENVI_SETUP_HEAD, map_info=map_info, data_type = 4, nb=1,ns = ns1,nl
= nl1,offset = 0,INTERLEAVE = INTERLEAVE,FNAME=outFl[i]
endfor

;openw,unit,outFl[0],/get_lun
;writeu,unit,c1
;free_lun,unit
;openw,unit,outFl[1],/get_lun
;writeu,unit,c2
;free_lun,unit
;openw,unit,outFl[2],/get_lun
;writeu,unit,c3
;free_lun,unit
;openw,unit,outFl[3],/get_lun
;writeu,unit,c4
;free_lun,unit
;openw,unit,outFl[4],/get_lun
;writeu,unit,c5
;free_lun,unit

end

```

Subject: Re: how to link the strname with the same name of variables

Posted by [David Fanning](#) on Tue, 14 Jul 2009 19:26:51 GMT

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Jean H. writes:

> hum, an array of pointers would be suitable in this case

Simple, Jean, simple. Perhaps it's time to re-read
Occum's Razor:

http://en.wikipedia.org/wiki/Occam's_razor

Cheers,

David

--

David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

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