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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
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```
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,refl[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
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