Subject: Re: SOS with Idl

Posted by airy.jiang on Wed, 22 Aug 2007 03:57:35 GMT

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On 8 22, 2 02, "anaisgcris...@gmail.com" <anaisgcris...@gmail.com>
wrote:
> Hi Jean, The mess i get it's:
>
  % Out of range subscript encountered: MATRIZ.
  % Execution halted at: P
    /home/iquique/anais/Codigos/Gadget/resultados/Idl/PlotPowerS pec.pro
  %
                  $MAIN$
>
  And when I tried to printf in prompt the matriz value, it's a secuence
 of numbers (in files) not in arrow! I just learning to program, and I
  suposse the problem it's some bad definition or something similar...
  On Aug 21, 6:01 pm, "Jean H." < ighas...@DELTHIS.ucalgary.ANDTHIS.ca>
 wrote:
>
>
>
>> anaisgcris...@gmail.com wrote:
>>> Hi, I just learning programming with Idl, and I've been trying to
>>> modifided a file to print a array 4X27 (matriz), but I can't print
>>> this array in a file! I suposse the problems it's some definition or
>>> something similar, but I didn't found it. It's posible that someone
>>> can check the code and help me to found the bug?
>>> Thanks a lot
>> What do you get exactly?
>
>> Jean
>>> Quote:
>>> pro p
>>> fname = "/home/iquique/anais/Codigos/Gadget/resultados/w_066/
>>> powerspec 004.txt"
>>> openr, 1, fname
>>> Time = 0.0
>>> Bins = 0L
>>> readf, 1, Time
>>> readf, 1, Bins
>>> da1= fltarr(10, bins)
>>> readf, 1, da1
>>> readf, 1, Time
>>> readf, 1, Bins
```

```
>>> da2= fltarr(10, bins)
>>> matriz = fltarr(2, 27)
>>> readf, 1, da2
>>> close,1
>>> K_A = da1(0,*)
>>> Delta2_A = da1(1,*)
>>> Shot_A = da1(2,*)
>>> ModePow_A = da1(3,*)
>>> ModeCount A = da1(4,*)
>>> Delta2Uncorrected A = da1(5,*)
>>> ModePowUncorrected A = da1(6,*)
>>> Specshape_A = da1(7,*)
>>> SumPower_A = da1(8,*)
>>> ConvFac_A = da1(9,*)
>
>>> K B = da2(0,*)
>>> Delta2_B = da2(1,*)
>>> Shot B = da2(2,*)
>>> ModePow_B = da2(3,*)
>>> ModeCount_B = da2(4,*)
>>> Delta2Uncorrected B = da2(5,*)
>>> ModePowUncorrected_B = da2(6,*)
>>> Specshape_B = da2(7,*)
>>> SumPower_B = da2(8,*)
>>> ConvFac_B = da2(9,*)
>>> ; we will do a band averaging of the finely binned points,
>>> ; subject to two conditions:
>>> ; We want enough modes per bin in order to reduce the variance in a
>>> bin.
>>> ; and simultaneously, for large k, we don't want the bins become too
>>> narrow.
>>> ; The first condition is set by "MinModeCount",
>>> ; the second by "TargetBinNummer", which is used to compute a minimum
>>> ; logarithmic bin-size.
>
>>> MinModeCount = 20
>>> TargetBinNummer = 60
>>> MinDlogK = (alog10(max(K_A)) - alog10(min(K_A)))/TargetbinNummer
>>> istart=0
>>> ind=[istart]
>>> k_list_A = [0]
>>> Delta2 list A = [0]
>>> count list A = [0]
```

```
>>>  for j = 0, 27-1 do begin
>>> repeat begin
>>> count = total(modecount_a(ind))
>>> deltak = (alog10(max(K_A(ind))) - alog10(min(K_A(ind))))
>>> if (deltak ge mindlogk) and (count ge MinModeCount) then begin
>>> d2 = total(SumPower A(ind))/total(ModeCount A(ind))
>>> b = fix(total(double(ind)*ModeCount_A(ind))/total(ModeCount_A(in d)))
>>> kk = K A(b)
>>> d2 = ConvFac A(b)*d2*Specshape A(b)
>>> k_list_A = [k_list_A, kk]
>>> Delta2 list A = [Delta2 list A, d2]
>>> count_list_A = [count_list_A, total(ModeCount_A(ind))]
>>> istart = istart + 1
>>> ind = [istart]
>>> endif else begin
>>> istart = istart + 1
>>> ind = [ind, istart]
>>> endelse
>>> endrep until istart ge Bins
>>> K list A = k list A(1:*)
>>> Delta2 list A = delta2 list A(1:*)
>>> Count_list_A = count_list_A(1:*)
>>> [b]matriz(0, j) = Delta2_list_A
>>> matriz(1,j) = Delta2_list_B
>>> end
>>> openw, 5, 'mypk.dat'
>>> for j= 0, 27 -1 do begin
>>> printf, 5, matriz(*, j)
>>> print, matriz(*, j)
>>> end
>>> close, 5
>>> end-
> -
I haven't read your code completely, but I can tell you that the error
message returned tell you the variable 'Matriz' have a different
dimensions with the data. And I suggest that when you are assigning the
data to the matrix, you'd better use this format:
matrix = fltarr(10)
array = [1.,2,3,4,5,6]
matrix[0:5]=array
Use the '[' and ']', not the '(' and ')' to assign the array
elements. I think that's maybe the main reason of your program error.
Cheers!
```