
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 , "anaigcris...@gmail.com" <anaigcris...@gmail.com>
wrote:

> Hi Jean, The mess i get it's:

>

> % Out of range subscript encountered: MATRIZ.

> % Execution halted at: P 119

> /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 secuencia

> of numbers (in files) not in arrow! I just learnig to program, and I

> suposse the problem it's some bad definition or something similar...

>

> On Aug 21, 6:01 pm, "Jean H." <jghas...@DELTHIS.ucalgary.ANDTHIS.ca>

> wrote:

>

>

>

>> anaigcris...@gmail.com wrote:

>>> Hi, I just learnig 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!