Subject: Re: Question about storing arrays in pointer array.
Posted by Ian[2] on Fri, 09 Mar 2012 16:05:50 GMT

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On Mar 8, 2:44 pm, Gianguido Cianci <gianguido.cia...@gmail.com>
wrote:
> On Thursday, March 8, 2012 3:42:44 PM UTC-6, Ian wrote:
>> Hello All,
>> I have a question regarding the storage of arrays within arrays. I am
>> attempting to read in 14 data files with 5 vectors of 512 elements. I
>> have attempted two methods:
>
>> ;test attempting to read in variety of data and overplot it in a stack
>> ;without y-axis and single x-axis
>
>> boo=DBLARR(14, 512)
>> ;boo=PTRARR(14)
>> for x = 0,13,1 do begin
>>   rdcol, 'iz_diff_rot'+STRCOMPRESS(x,/REMOVE_ALL)
>> +'.dat',p1,p2,p3,p4,p5
>>   print, i, " The dat file is: ", 'iz_diff_rot'+STRCOMPRESS(x,/
>> REMOVE_ALL)+'.dat'
>
>> ;attempt 1
>> ;Fills the pointer array with 14 dbl arrays. Use boo=PTR....
>> ;   for i=0,13,1 do begin
>> ;   boo[i]=PTR_NEW(DBLARR(512))
>> ;   p5=boo[i]
>> ;   endfor
>> ;endfor
>
>> ;attempt 2
>> ;Creates two dimensional array of 14 columns with 512 elements. Use
>> boo=DBL....
>>   for i = 0,13,1 do begin
>>   for j = 0,511,1 do begin
>>   boo[i,j]=p5[j]
>>   endfor
>>   print, boo[i,300]
>>   endfor
>> endfor
>
>> END
>
>> Attempt one using the pointer array provides 14 arrays but the values
>> are all zero, can anybody give a suggestion on how to store the new p5
>> in boo[i]?
>

>> Thanks for your time.
>> Sincerely
>> Ian
>
> What's wrong with a 3D array [14,512,5] ?
>
> What does the pointer business do for you here?
>
> G
>
>

I did not want to fill one array with all my data. I figured pointers
might work well and allow faster plotting; however I got it to work
with a 2D array (14,512)as well.
Thanks
Ian