Subject: Re: printing an array from pointers
Posted by bing hu on Tue, 28 Mar 2006 08:22:10 GMT
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openw,lun,'t3.txt',/get_lun
for i=0,9 do begin
etc...
arr=(some 1 by 8 vector)
printf,lun,arr(i)
endfor
free_lun,lun
end

---
this code may help u.

Subject: Re: printing an array from pointers
Posted by peter.albert@gmx.de on Tue, 28 Mar 2006 13:30:50 GMT
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Hi Eli,

if your goal really is to just create the 10x8 array via the loop and
then print the complete array, I wouldn't use pointers. A simple

```
arr = fltarr(10,8)
for i = 0,9 do begin
   ...
   arr[i,*] = (some 1 by 8 vector)
endfor

print, arr
```

will do the trick.

If you _really_ want to use the pointer array, you have to manually
concatenate the individual vectors like

```
print, transpose([[*ptr[0]], [*ptr[1]], ..., [*ptr[9]]])
```

which is far from being elegant and most likely will waste some memory.
Not really a problem with 10x8 entries, but there is probably more to
come?

While you think over it, why not completely re-thinking the problem and
trying to avoid the for-loop at all :-) ?

Cheers,

Peter

Subject: Re: printing an array from pointers
Posted by bressert@gmail.com on Wed, 29 Mar 2006 05:08:40 GMT
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Hi Peter,

Thanks for the tip on fltarr, worked like a gem. This is my first project in IDL and I have a lot to cover still. When I initially made the current program I was used to loops and realized towards the end that using arrays is much more efficient. For the next script, I will try that out.

Cheers,

Eli

Subject: Re: printing an array from pointers
Posted by bressert@gmail.com on Wed, 29 Mar 2006 07:55:46 GMT
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Hi Peter,

Another question, since I have ran into a new bump. Is there a way to say

arr = fltarr(A,8)

where A is a number that fluctuates? So rather than stating that arr is A rows long, it is a number determined by the total output of the for loop? For example,

arr = fltarr(150,8)

will be sufficient in gathering all the 'for' outputs, but I will have trailing zeros that have not been assigned an output value. Using UNIQ or an 'if' to get rid of the zeros in the array does not work, since some of the output from the 'for' loop is zero. This was the original reason why I used the pointers, since there was no requirement of predetermination of the number of rows. Any suggestions or ideas would be greatly appreciated. Thanks again for the help.

Cheers,

Eli