
Subject: Re: Reading multiple ASCII files in as 2d arrays and putting them into a 3d array

Posted by [David Fanning](#) on Mon, 16 Feb 2009 17:03:33 GMT

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polystethylene writes:

```
> I've run into a strange problem with this:
>
> FOR i=0,nfiles-1 do begin
>   infile = string(filefolder)+string(i+1,format='("/,i3.3,".dump")')
>   OPENR,lun,infile,/GET_LUN
>   rows = FILE_LINES(infile)
>   data = fltarr(10,nstar,nfiles)
>   framearray = fltarr(10,rows)
>   READF,lun,format='(l2,1x,l2,1x,l2,2x,F0,2x,l0,5F0.3)',framearray
>   close,lun
>   free_lun,lun
>   data[0,0,i] = framearray
>   print,i
>   print,data[*,*,i]
> ENDFOR
> print,data
> RETURN
> END
>
> I've stuck a print statement within the loop to check that each 2-d
> array is being written to the 3-d array with each pass of the loop,
> and it seemed to be working fine.
> However, when I came to pass the variable 'data' out to another
> procedure, I noticed it was (mainly) full of zeros. A quick print
> statement outside the loop within the above procedure revealed that I
> had zeros throughout the entirety of 'data', except for the final
> value of i.
>
> I.e. there were only values for data[*,*,124], where 124 is the last
> value of the loop index.
>
> Has anyone come across such behaviour before?
```

Humm. Well, now that you mention it, maybe I tried that array[0,0,i] = something trick before and it didn't work. I was afraid of this, but I didn't have time (nor do I today) to test it. :-(

I think you are going to have to explicitly figure out how big the thing on the right-hand side is, and set your subscripts on the left-hand side to reflect what you

are trying to store there.

I guess the other choice would be to have a 2D "frame" that you stuffed each right-hand side into, using the trick above (which *will* work). Then stuff that "frame" into your 3D array.

Sort of ugly, I guess.

Cheers,

David

--

David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
