
Subject: Re: large arrays and transpose
Posted by [Don J Lindler](#) on Mon, 01 Jul 2002 15:18:14 GMT
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>
> I have an array like so:
>
> output = intarr(100, 3600,1800)
>
> At the end of my program, I would like to do this:
> output = TRANSPOSE(output, [1, 2, 0])
>
> Problem is that the array is too large, and I am "unable to allocate
memory
> to make array."
>

You might try something like this:

```
openw,1,'temp'  
for i=0,99 do writeu,1,output(i,*,*)  
close,1  
output = reform(output,3600,1800,100,/overwrite) ;reuse same memory  
openr,1,'temp'  
readu,1,output  
close,1
```

Assuming output fits in memory, this should not be too bad. If you do not
have
enough memory, you will get alot of swapping during the write.

Don Lindler

Subject: Re: large arrays and transpose
Posted by [Craig Markwardt](#) on Mon, 01 Jul 2002 18:51:39 GMT
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"Sean Raffuse" <sean@me.wustl.edu> writes:
> Hello.
>
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>
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> Problem is that the array is too large, and I am "unable to allocate memory
> to make array."

Sean, if you really cannot fit two copies of the same array in memory, then you are probably going to run into more problems than simply the TRANSPOSE step.

My first question: do you really need to transpose? Or, can you keep it in the same format and simply access it differently.

Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: large arrays and transpose
Posted by [wmconnolley](#) on Mon, 01 Jul 2002 20:25:52 GMT
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Sean Raffuse <sean@me.wustl.edu> wrote:
> Problem is that the array is too large, and I am "unable to allocate memory
> to make array."

Some systems (like our alphas) impose artificial memory limits on processes. Try:

limit datasize unlimited

(or it may be ulimit, or whatever) and see if that helps. In fact, try

limit

first just to see what your limits are. What system are you on?

-W.

--

William M Connolley | wmc@bas.ac.uk | <http://www.nerc-bas.ac.uk/icd/wmc/>
Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself
I'm a .signature virus! copy me into your .signature file & help me spread!