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Subject: Re: SAVE again

Posted by [Craig Markwardt](#) on Wed, 26 May 2010 00:35:58 GMT

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On May 25, 8:05 pm, fgg <fabioquimaraesgoncal...@gmail.com> wrote:

> Hello,  
>  
> Is it possible to simplify this line:  
>  
> save, v1, v2, v3, v4, v5,...,v100, filename = 'xxx..sav'  
>  
> by using something like this:  
>  
> for j=1,100 do print, 'v'+strtrim(string(j),1)+'',  
>  
> ... so I don't have to write down "v" a hundred times?

You might want to try this library,

<http://www.physics.wisc.edu/~craigm/idl/cmsave.html>  
which can programmatically create SAVE files.

Craig

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Subject: Re: SAVE again

Posted by [penteado](#) on Wed, 26 May 2010 00:45:52 GMT

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On May 25, 9:05 pm, fgg <fabioquimaraesgoncal...@gmail.com> wrote:

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> ... so I don't have to write down "v" a hundred times?

Possible, yes. But that is not your problem. Your code really should not have 100 variables called vxxx. It is a nightmare to read and to edit.

Why don't you put all that stuff into a single array?

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Subject: Re: SAVE again

Posted by [fgg](#) on Wed, 26 May 2010 01:18:25 GMT

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On May 25, 5:45 pm, pp <pp.pente...@gmail.com> wrote:

> On May 25, 9:05 pm, fgg <fabioquimaraesgoncal...@gmail.com> wrote:

>

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> not have 100 variables called vxxx. It is a nightmare to read and to

> edit.

>

> Why don't you put all that stuff into a single array?

Hi pp,

Yes, I know... this is a bad example. I don't actually have 100 variables called vxxx. Just wanted to know if there is a way to pass the variable names to be saved other than typing each name and passing them as parameters on the line. I think CMSAVE will do it... thanks, Craig!

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Subject: Re: SAVE again

Posted by [Gray](#) on Wed, 26 May 2010 06:54:17 GMT

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On May 25, 9:18 pm, fgg <fabioquimaraesgoncal...@gmail.com> wrote:

> On May 25, 5:45 pm, pp <pp.pente...@gmail.com> wrote:

>

>

>

>

>

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>  
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> variables called vxxx. Just wanted to know if there is a way to pass  
> the variable names to be saved other than typing each name and passing  
> them as parameters on the line. I think CMSAVE will do it... thanks,  
> Craig!

You can automate actions with multiple variations of the same filename by using EXECUTE. Thus, in this example, you would want to do something like:

```
vars = strjoin('v'+strtrim(indgen(100)+1,1),',')  
fname = string(39B)+'xxx.sav'+string(39B)  
status = EXECUTE('save, '+vars+', filename='+fname)
```

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Subject: Re: SAVE again

Posted by [Carsten Lechte](#) on Wed, 26 May 2010 08:45:02 GMT

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pp wrote:

> Why don't you put all that stuff into a single array?

The original poster did not give any specifics, but the usual way a beginning IDL programmer end up with lots of variables is when when he has arrays of different data types and/or different sizes. One way of imposing some kind of structure on them is to put the variables into a structure. This is a good way to group together a set of variables that each describe a different aspect of some object (like name, position, color...) Then you have the dilemma of using an array of structs or a struct of arrays.

The other way is using an array of pointers to the various arrays, like `alldata = PTRARR( numarr)`, then `alldata[0] = PTR_NEW( v1)` etc. I use this a lot when I have a list of data files to read, and the

data arrays in the files do not all have the same dimensions.

chl

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