
Subject: Re: restore all but ! variables

Posted by [Allan Whiteford](#) on Thu, 29 May 2008 16:14:41 GMT

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Jeremy Bailin wrote:

> Does anyone know of a convenient way of restoring the contents of a
> SAVED file created using /ALL that will restore everything except for
> system variables (ie. anything starting with !)? I have some old .sav
> files from a different system with a different file structure, and
> doing a simple RESTORE over-writes things like !PATH that really need
> to be from the new system.
>
> On a related note, is there a way to rename a common block? I.e. I
> have a .sav file that contains a previous version of a common block,
> but in my current code I have extended the common block to include
> some new variables. So I would like to do something like this so that
> I can resurrect the saved data into the new data structure where my
> new code can operate on it:
>
> restore, 'oldsavedfile'
> ***RENAME cb (WITH ASSOCIATED vars) TO oldcb (WITH ASSOCIATED
> oldvars)***
> common_block, cb, LIST OF VARIABLES IN NEW COMMON BLOCK
> ASSIGN oldvars TO EQUIVALENT vars
> save, 'newsavedfile',
>
> -Jeremy.

Jeremy,

If you've not seen them you should look at Craig Markwardt's
save/restore routines which could provide some help:

<http://cow.physics.wisc.edu/~craigm/idl/cmsave.html>

Thanks,

Allan

Subject: Re: restore all but ! variables

Posted by [Bob\[3\]](#) on Thu, 29 May 2008 20:31:39 GMT

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On May 29, 12:11 pm, Jeremy Bailin <astroco...@gmail.com> wrote:

> Does anyone know of a convenient way of restoring the contents of a
> SAVED file created using /ALL that will restore everything except for
> system variables (ie. anything starting with !)? I have some old .sav

- > files from a different system with a different file structure, and
- > doing a simple RESTORE over-writes things like !PATH that really need
- > to be from the new system.

How about (temporarily) SAVEing the new system's system variables in a SAV file using /SYSTEM_VARIABLES then RESTOREing them after you've restoring the sav file from the old system?

Subject: Re: restore all but ! variables

Posted by [Michael Galloy](#) on Thu, 29 May 2008 21:04:05 GMT

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Jeremy Bailin wrote:

- > Does anyone know of a convenient way of restoring the contents of a
- > SAVED file created using /ALL that will restore everything except for
- > system variables (ie. anything starting with !)? I have some old .sav
- > files from a different system with a different file structure, and
- > doing a simple RESTORE over-writes things like !PATH that really need
- > to be from the new system.

I think the IDL_Savefile class should be able to do what you want, but the "everything else" needs to be enumerated i.e. regular variables and common blocks should be sufficient:

```
IDL> save, /all, filename='all.sav'
IDL> exit
~$ idl
IDL> savfile = obj_new('idl_savefile', filename='all.sav')
IDL> savfile->restore, savfile->names(), /verbose ; regular
variables
IDL> savfile->restore, savfile->names(/common_block), /common, /
verbose ; common blocks
IDL> obj_destroy, savfile
```

Mike

--

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Subject: Re: restore all but ! variables

Posted by [Jeremy Bailin](#) on Thu, 05 Jun 2008 18:01:51 GMT

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>> Does anyone know of a convenient way of restoring the contents of a

>> SAVEd file created using /ALL that will restore everything except for
>> system variables (ie. anything starting with !)? I have some old .sav
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>> to be from the new system.
>
> How about (temporarily) SAVEing the new system's system variables in a
> SAV file using /SYSTEM_VARIABLES then RESTOREing them after you've
> restoring the sav file from the old system?

Why didn't I think of that? Great idea - works beautifully. :-)=
Thanks!

-Jeremy.
