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Subject: Re: Dynamically naming structures in IDL  
Posted by [wlandsman](#) on Wed, 29 Jul 2015 20:45:59 GMT  
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What if you also put the SAVE statement in execute()

```
status = execute("save, newname, file = '/Users/me/Documents/omni_general_'+year+'.sav' ")
```

On Wednesday, July 29, 2015 at 3:12:17 PM UTC-4, Scheherazade wrote:

> On Wednesday, July 29, 2015 at 2:23:10 PM UTC-4, wlandsman wrote:

>> If I understand correctly, you could use EXECUTE() to rename your structure:

>>

```
>> newname = 'new_structure_' + year
```

```
>> status = execute( newname + '= TEMPORARY(new_variables)' )
```

```
>> save, newname, filename = '/Users/me/Documents/omni_general_'+year+'.sav'
```

>>

>>

>> On Wednesday, July 29, 2015 at 1:08:52 PM UTC-4, Scheherazade wrote:

>>> I have a structure, 'omni\_gen', which is filled with data for 2011, 2012, and 2013. In my program, I pull data out based on year (which is input) using a where statement, create variables for the selected data, and run these variables through a routine which outputs a new set of variables. I want to save these new variables to a structure, so I can later concatenate them together to plot.

>>>

>>> I first save my structure to a different filename each time:

>>>

```
>>> year=strcompress(string(year), /remove_all)
```

>>>

```
>>> new_variables=create_struct('new_globtec_'+year, new_globtec, 'new_day_'+year,  
new_day_numb, 'new_f10_'+year, new_f10_data, $
```

```
>>> 'new_ap_'+year, new_ap_data, 'new_smf10_'+year, new_smf10)
```

>>>

```
>>> save, new_variables, filename='/Users/me/Documents/omni_general_'+year+'.sav'
```

>>>

>>> When I go to concatenate the structures, I restore these files and manually rename the corresponding new\_variables structure each time, like so:

>>>

```
>>> restore, '/Users/keleuterio/Documents/omni_2011.sav'
```

```
>>> new_variables=omni_data_2011
```

>>>

>>> But this obviously isn't automated. Is there a different way to do this so that the structure itself will have a different name each time (ex: new\_structure\_2011, new\_structure\_2012)?

>

> That successfully renamed the structure while in the program, but it doesn't work when I restore the file later (since it saves newname, not the new structure).

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