

---

Subject: Re: Dynamically naming structures in IDL

Posted by [Scheherazade](#) on Wed, 29 Jul 2015 19:12:15 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

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).

---