Subject: Re: Dynamically naming structures in IDL
Posted by wlandsman on Wed, 29 Jul 2015 21:16:41 GMT
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Oops that should be

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

On Wednesday, July 29, 2015 at 4:46:02 PM UTC-4, wlandsman wrote:
> 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).