Subject: Re: accessing variables with their string names Posted by Martin Schultz on Fri, 19 Dec 1997 08:00:00 GMT

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Natalie Rooney wrote:

- > Hello. I'm trying to create a graphical user interface to do analysis
- > and plotting of research data. My widget contains a list widget where I
- > display the names of the data the user has read in.

>

- The problem is: I wanted the user to be able to read in a dat file of
- > saved variables. I don't know what the names of the variables will
- > necessarily be. I figured out a way to get the STRING names of the
- > restored variables into an array. But, I still need a way to access the
- > data that the variables contain for plots, etc. Is there any way to
- > access the variables' data if all you have is a string array of the
- > variables' names? I'd appreciate any help.

- > Thanks.
- > Natalie Rooney

If I understand you correctly, all you need is something like timeind = where(names eq 'TIME') ind = where(names eq VARNAME) if (ind(0) ge 0) then plot,data(timeind,*),data(ind,*)

Here data is the data array, and names stores the variable name strings. In the example above, data has the dimension (M,N), with M variable names and N observations.

You can get the VARNAME from the widget via the following procedure:

- ; get names and selection of x or y list
- widget_control,widget_id,get_value=names
- ; determine selection in x or y list
- : (requires knowledge of the structure of cw xysel!!)
- widget_control,widget_info(widget_id,/child),get_uvalue=xyst ate sel = widget info(xystate.listID,/list select)

This is actually a piece of code from my EXPLORE widget application. You may want to check my web page for this, and if you like the general idea, I am sure you can find a handful of information with respect to what you are trying to do if you take a look at the sources.

Regards, Martin.

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