Subject: Re: Strings as variables?
Posted by Craig Markwardt on Fri, 09 Mar 2001 23:10:02 GMT
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brbojkov@netscape.net (B. R. Bojkov) writes:

> Hello All,
>
> I am writing a "general" HDF extraction subroutine using IDL 5.4 and I
> am stuck...
>
> Let me explain:
>
> 1. I read from an HDF file the names (strings) representing the
> different data arrays found in the given file (this can change from
> file to file).
>
> 2. I successfully extract the different data arrays found in the file
> and assign them to their matching dataset names using the EXECUTE
> command.
>
> 3. What I want to do next is pass the actual data variables (with
> their appropriate name from point 2.) to another subroutine (I want
> to pass the actual variables, not the string containing their names).
>
> Am I missing something big? Any suggestions?

You probably aren't missing something big. The answer is to also call
the subroutines mentioned in number 3 by using the EXECUTE statement
as well. This sounds kind of kludgey, but that's probably because
steps 1 and 2 are a bit kludgey as well. I'm wondering, why does the
name of the variable make a difference? Couldn't you just call it
DATA in your procedure?

If the number of variables is itself variable, then this is a time to
use pointers, or more specifically arrays of pointers.

Craig

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Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
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Subject: Re: Strings as variables?

Posted by R.Bauer on Sat, 10 Mar 2001 18:03:56 GMT
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"B. R. Bojkov" wrote:
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>
> Thanks in advance,
>
> Bojan

Hi,

you should use structures.

because then you do not need EXECUTE. x=CREATE_STRUCT(name,data)

If you are using EXECUTE you will never be able to use your
routines in RUNTIME.

I have already a tool to read in the total datasets into a structure.
(ICG-DATA-STRUCTURE). If you are interested please give me a note.

This data structure is explained in my publication:
http://www.fz-juelich.de/zb/text/publikation/juel3786.html

regards

Reimar

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Reimar Bauer

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a IDL library at ForschungsZentrum Jï¿½lich
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