Subject: Re: Obtaining variable names as strings Posted by Martin Schultz on Mon, 14 May 2001 12:41:22 GMT View Forum Message <> Reply to Message

Ian Dean <ian.d.dean@baesystems.com> writes:

- 1.) please don't use html mail in future posts.
- 2.) i'm still not entirely sure what you want to do here, but from your description it sounds as if there are several things done in an unnecessarily complex way? Even if the include file is sacrosanct as you say (BTW: I would never accept such a statement), you could still treat it as a normal ASCII file and read in the variable definitions e.g. into structures like { varname:"Joe", value:"200" } or into two arrays: strarr() and values(). This would make searching and matching much easier.
- 3.) but if you really need to include the include file as such, Reimar Bauer can probably tell you how to use the undocumented features of routine_name() to achieve what you want.

Martin

- > <!doctype html public "-//w3c//dtd html 4.0 transitional//en">
- > <html>
- > Hi All,
- >
 I have an include file containing both variable
- > definitions and COMMON block(s). I need to obtain a string representing
- > a variable name that is set to a unique value.
- > Pro Get val
- >
@Vars.inc
- >
>.....
- >
End
- > File Vars.inc:-
- >
 Fred = 100
- >
 Joe =200
- >

- >
 Mary = 725
- >
 Anne = 812
- >
br>Common Rubbish,Fred,Joe,....Mary, Anne
- > For instance, if the user gives a value of 200, I require to give the
- > string 'Joe'.
- > I have been able to use the Help,name='*',out=xxxx to get a list of
- > all variables, which can then be interrogated. However, there are a significant
- > number of variables and I'm concerned about the time taken to perform this
- > in a time-critical operation.
- > Some added info:

```
> 1) Is it possible to get a list of common variable names (like IDLDE
> provides)?
> <br/> <br/> > The final program is in "SAVed" format and no longer has access
> to the build files.
> <br/>br>3) The format of the include files is sacrosanct and are defined by
> external sources.
> <br/>br>4) Each of the numbers (100,200....725,812) are unique within this
> file (but obviously not throughout a run).
> I hope there is someone out there who can help, or give me some useful
> pointers.
> Regards,
> <br>&nbsp;&nbsp;&nbsp; lan
> <br>&nbsp;</html>
>
[[ Dr. Martin Schultz Max-Planck-Institut fuer Meteorologie
             Bundesstr. 55, 20146 Hamburg
\prod
             phone: +49 40 41173-308
                                              \prod
             fax: +49 40 41173-298
                                             []
[[ martin.schultz@dkrz.de
                                             [[
```

Subject: Re: Obtaining variable names as strings Posted by R.Bauer on Mon, 14 May 2001 15:38:54 GMT View Forum Message <> Reply to Message

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Martin Schultz wrote:
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>

lan Dean <ian.d.dean@baesystems.com> writes: > > 1.) please don't use html mail in future posts. > > > 2.) i'm still not entirely sure what you want to do here, but from > your description it sounds as if there are several things done in > an unnecessarily complex way? Even if the include file is sacrosanct > as you say (BTW: I would never accept such a statement), you could > still treat it as a normal ASCII file and read in the variable definitions > e.g. into structures like { varname: "Joe", value: "200" } or into > two arrays: strarr() and values(). This would make searching and > matching much easier. > 3.) but if you really need to include the include file as such, > Reimar Bauer can probably tell you how to use the undocumented

> features of routine_name() to achieve what you want.

> Martin

>

Hi, Ian

in the past I have used some variables in the same way I think as you like to do it now.

The following function founds defined variables without structures. They are removed by some statements in the routine.

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/variab.tar.gz

This function uses the internal routine routine_info. This is an undocumented routine and it could be that it will be removed in future releases.

Many routines e.g. Craigs restore or the read_ascii etc. are using some features of this routine.

I prefer myself reading variabels in structures mentioned by Martin see point 2.

regards Reimar

--

Reimar Bauer

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a IDL library at ForschungsZentrum J�lich http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

http://www.fz-juelich.de/zb/text/publikation/juel3786.html