## Subject: Re: creating a variable from unknow name Posted by KM on Thu, 30 Dec 2004 03:43:13 GMT

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On Wed, 29 Dec 2004, Andry William wrote:

- > I would to ask some advice on how I can create a variable with the
- > name defined by some value in the memory.

>

- > I would like to be able to do the same in IDL. I first have to
- > check which variable is present in a file (atcually they are
- > NetCDF files), then assign the values to the name defined in the
- > file.

>

- > Something like if I see that the variable "lon" exists in a file,
- > then assign its values to the name "lon".

>

> I am not sure if I need some pointer or object for that.

I think you could do it using a pointer (that is how the read\_netcdf procedure does it I tihnk). I don't think you need objects.

But I would do it without pointers like this:

```
r = EXECUTE( "a=2" )
help, a
```

Does this do what you want?

-k.

Subject: Re: creating a variable from unknow name Posted by R.Bauer on Thu, 30 Dec 2004 13:32:58 GMT

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Andry William wrote:

```
Dear IDL user,I would to ask s
```

- > I would to ask some advice on how I can create a variable with the name
- > defined by some value in the memory. I mean: in unix/linux CSH, one can
- > say
- >
- > set a = b1
- > set \$a = 4
- > so that the value stored in the variable name b1 is 4
- > echo \$b1 (returns)
- > 4

```
I would like to be able to do the same in IDL. I first have to check which variable is present in a file (atcually they are NetCDF files), then
assign the values to the name defined in the file.
Something like if I see that the variable "lon" exists in a file, then
assign its values to the name "lon".
I am not sure if I need some pointer or object for that.
Thanks in advance for your help.
Best wishes for the new year for all of you.
```

Dear Andry

> Andry

>

probaly you could use our read\_ncdf routine. The structure you got returned looks similar to this one.

The short\_name is the real netcdf name because the tagname has it's own rules. Only characters which are able to use for variables could be used as tagnames.

This data structure is used for several routines of the icg idl library.

```
: EXAMPLE:
 result=read ncdf('ghost.nc')
 help,result,/str
 ** Structure <10b5508>, 7 tags, length=3072, refs=1:
   !FILENAME
                  STRING
                            'ghost.nc'
   !GLOBAL
                 STRUCT -> < Anonymous > Array[1]
   TIME
               STRUCT -> < Anonymous > Array[1]
               STRUCT -> < Anonymous > Array[1]
   N20
   F12
              STRUCT -> < Anonymous > Array[1]
 result=read_ncdf('ghost.nc','F12')
 ** Structure <10b25d4>, 6 tags, length=2256, refs=1:
  !FILENAME
                 STRING
                           'ghost.nc'
  !GLOBAL
                STRUCT
                           -> <Anonymous> Array[1]
              STRUCT -> < Anonymous > Array[1]
  TIME
  F12
             STRUCT -> < Anonymous > Array[1]
 help,result.global,/str
 ** Structure <10b31b0>, 6 tags, length=268, refs=2:
                 STRUCT -> < Anonymous > Array[1]
  GPARAM
```

```
HISTORY
               STRING Array[1]
           STRUCT -> < Anonymous > Array[1]
               STRUCT -> < Anonymous > Array[1]
  DATASET
                          -> <Anonymous> Array[1]
  PLATFORM
                STRUCT
  EXP
            STRUCT -> < Anonymous > Array[1]
help,result.f12,/str
 ** Structure <10aa984>, 20 tags, length=808, refs=2:
               STRUCT -> < Anonymous > Array[1]
   STATUS
   SHORT NAME
                   STRING
                           'F12'
   FLAG
              STRING 'NONE'
   SAMPLE INTERVAL FLOAT
                                0.000000
   ADD_OFFSET
                  FLOAT
                             0.000000
   SCALE_FACTOR FLOAT
                               1.00000
   UNITS
              STRING
                       'pptv'
   FORTRAN_FORMAT STRING 'F6.2'
   LONG NAME
                  STRING
                           'CF!12!NCI!12!N'
   DE_LONG_NAME STRING
                             'CF!I2!NCI!I2!N'
   DESCRIPTION
                  STRING
                          'Data Retrieval via smoothed chromatogram
(Gol'.
   DE DESCRIPTION STRING
                             'DE DESCRIPTION= Auswertung per gegli¿ættetem
Ch'.
   FILL_VALUE
                FLOAT
                            999.900
   STDEV REL
                 DOUBLE
                             0.0065000000
   PARAM
                 FLOAT
                         Array[87]
   PLOT MIN
                FLOAT
                            460,600
   PLOT MAX
                 FLOAT
                            541.000
   VALID
              LONG
                      Array[84]
   FILLED
              LONG
                      Array[3]
```

At the moment the server is down. If it is restarted then you could get it from here

http://www.fz-juelich.de/icg/icg-i/idl icglib/idl lib intro. html

cheers

Reimar

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Forschungszentrum Juelich email: R.Bauer@fz-juelich.de http://www.fz-juelich.de/icg/icq-i/

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a IDL library at ForschungsZentrum Juelich http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_lib\_intro. html

Subject: Re: creating a variable from unknow name Posted by war on Mon, 03 Jan 2005 01:21:35 GMT View Forum Message <> Reply to Message

Thanks to all who have replied to my question. All the suggestions just helped me in what I want to do.

Regards,

Andry