Subject: Re: How can I know all the information of a CDF file? Posted by David Fanning on Thu, 16 Apr 2009 18:54:41 GMT View Forum Message <> Reply to Message

litongmu@gmail.com writes:

- > I am not sure whether there is anyone who is working on CDF files. But
- > if there is, I want to ask how you get the variable information, like
- > the variable name. I know how to do that in Matlab. But as to
- > manipulating CDF files, Matlab is not as powerful as IDL. So I want to
- > switch to IDL. But I do not want to use them both. Because one of my
- > machine do not have a Matlab license. So please tell me if you know
- > the answer.

I've not done this, but I think you would do it something like this:

```
fID = CDF_Open(filename)
info = CDF_Inquire(fID)
nvars = info.nvars
FOR j=0,nvars-1 DO BEGIN
varInfo = CDF_VarInq(fID, j)
Help, varInfo, /Structure
Print, 'Variable Name: ', varInfo.name
ENDFOR
CDF_Close, fID
```

Cheers.

David

--

David Fanning, Ph.D.
Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: How can I know all the information of a CDF file? Posted by David Fanning on Thu, 16 Apr 2009 18:56:11 GMT View Forum Message <> Reply to Message

litongmu@gmail.com writes:

- > I am not sure whether there is anyone who is working on CDF files. But
- > if there is, I want to ask how you get the variable information, like
- > the variable name. I know how to do that in Matlab. But as to
- > manipulating CDF files, Matlab is not as powerful as IDL. So I want to
- > switch to IDL. But I do not want to use them both. Because one of my
- > machine do not have a Matlab license. So please tell me if you know

> the answer.

I've not done this, but I think you would do it something like this:

```
PRO CDFVARNAME

fID = CDF_Open(filename)

info = CDF_Inquire(fID)

nvars = info.nvars

FOR j=0,nvars-1 DO BEGIN

varInfo = CDF_VarInq(fID, j)

Help, varInfo, /Structure

Print, 'Variable Name: ', varInfo.name

ENDFOR

CDF_Close, fID

END
```

Cheers,

David

--

David Fanning, Ph.D.
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Subject: Re: How can I know all the information of a CDF file? Posted by russell.grew on Thu, 16 Apr 2009 23:20:09 GMT View Forum Message <> Reply to Message

If you want a softer approach I suggest downloading CDAWlib and playing around with some of the routines in there.

The CDFx GUI is a nice graphical way [you Matlab users like GUI's right?] of coming to terms with the contents of a given CDF quickly.

I have also found some the Berkeley CDF routines useful. They can be found in the IDL libraries for various missions [FAST, THEMIS etc]

Cheers.