
Subject: Re: NetCDF Attribute Inquiry

Posted by [Liam E. Gumley](#) on Thu, 22 Mar 2001 15:09:51 GMT

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Alex Schuster wrote:

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>
> "Liam E. Gumley" wrote:
>
>> Alex Schuster wrote:
>
> [How to check for available attributes without using NCDF_ATTINQ(),
> which sometimes gives bad results]
>
>> Here is a function which returns a list of attribute names for a given
>> variable name. If the variable name is set to the null string "", a list
>> of global attribute names is returned.
>>
>> FUNCTION NCDF_ATTDIR, CDFID, VARNAME
> [...]
>
> Thanks! That's what I needed.
>
> As I also don't know for sure beforehand which variables are in the
> file, I modified your routine so it returns this info. I guess you also
> already have a NCDF_VARDIR() function, but here it is anyway:
>
> FUNCTION NCDF_VARDIR, CDFID
>
> ;- Check arguments
> if n_params() ne 1 then message, 'Usage: RESULT = NCDF_VARDIR(CDFID)'
> if n_elements(cdfid) eq 0 then message, 'CDFID is undefined'
>
> ;- Set default return value
> varnames = ""
>
> fileinfo = ncdf_inquire(cdfid)
> nvars = fileinfo.nvars
>
> ;- If variables were found, get attribute names
> if nvars gt 0 then begin
>   varnames = strarr(nvars)
>   for index = 0, nvars - 1 do $
>     varnames[index] = (ncdf_varinq(cdfid,index)).name
>   endif
>
> ;- Return the result
> return, varnames
>
```

> END

Alex, you just about read my mind. Here is my NCDF_VARDIR function:

```
FUNCTION NCDF_VARDIR, CDFID

;- Check arguments
if n_params() ne 1 then message, 'Usage: RESULT = NCDF_VARDIR(CDFID)'
if n_elements(cdfid) eq 0 then message, 'CDFID is undefined'

;- Set default return value
varnames = ""

;- Get file information
fileinfo = ncd_f_inquire(cdfid)
nvars = fileinfo.nvars

;- If variables were found, get variable names
if nvars gt 0 then begin
  varnames = strarr(nvars)
  for index = 0, nvars - 1 do begin
    varinfo = ncd_f_varinq(cdfid, index)
    varnames[index] = varinfo.name
  endfor
endif

;- Return the result
return, varnames

END
```

Cheers,
Liam.
<http://cimss.ssec.wisc.edu/~gumley>
