
Subject: Re: Retrieving variables from a subroutine
Posted by [Paul Van Delst\[1\]](#) on Tue, 20 Feb 2007 16:51:18 GMT
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Andy Heaps wrote:

>
> I've written some IDL code to retrieve all the variables from a NetCDF
> file. This takes the form of:
> ncopen, 'file.nc'
> @ncread
>
> where the ncopen routine opens up the NetCDF file and writes all the
> variable information into a set of system strings in a !variable. The
> batch file statement @ncread then accesses these strings to read the
> data so all the variables are available from within the calling routine.
>
> This process is the only way I could think of to get the variables to
> appear in the calling procedure without having the NetCDF code directly
> in the user's program. Although this works, I cannot help thinking this
> is not the most elegant way of doing the job. I'd certainly like to
> just have one command to do the job, rather than two, if at all possible.
>
> As this program is for the use of undergrad students I don't want to use
> structures as they'll think IDL is very complicated and we all know that
> that isn't the case ;-). One of the ideas I had was to somehow get the
> returning ncopen procedure to call @ncread but I cannot think of a way
> to do that.
>
> Does anyone know of any IDL magic that could be used to have a single
> procedural (or other) call, and then somehow end up with the NetCDF
> variables extracted back in the the calling procedure?

I have a function to read netcdf files. See:

<http://tinyurl.com/3apa9f>

cheers,

paulv

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Paul van Delst Ride lots.
CIMSS @ NOAA/NCEP/EMC

Eddy Merckx
