Subject: Re: IDL and NetCDF

Posted by R.Bauer on Wed, 13 Jun 2001 12:33:17 GMT

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"Claus S�lvsteen" wrote:

>

- > Is there anyone out there who knows about using NetCDF in IDL programming -
- > or knows anybody who does?
- > I have recently started using this, and my problems are not answered
- > entirely from the IDL online manuals and the "basic" NetCDF homepage,
- > www.unidata.ucar.edu/packages/netcdf
- > For instance, I am in doubt about 1) how do I use (and when should I use)
- > unlimited variables, 2) is it possible to use structures as variables, and
- > 3) how do I most properly create my program so that it is easily seen which
- > variables belong together?
- > I have a long set of observations of radar altimetry measurements og
- > significant wave heights and wind speeds. So all measurements are acquired
- > at different times. One measurement consists of information about
- > acquisition time (year, month, day, decimal hour), lat/lon, SWH, rms of SWH
- > measurement, wind speed and others). Note that some variables are integers,
- > some are doubles/floats so I cannot just make a DbIArr consisting all
- > measurements.
- > A file consists of several repeated tracks/cycles and the measurements have
- > been put into a grid therefore several measurements within a file may
- > belong to a certain grid point though their acquisition times are different.
- > On the other hand, for some grid points there may be no data.
- > I hope that someone can help me.

>

- > Best regards,
- > Claus S�lvsteen

>

Dear Claus,

we have developed a data structure (icg-data-struct).

This structure is used for several of our routines for input and ouput. We have read and write netCDF routines for this structure. In addition several correlate, synchronize and plot routines handling data of this structure are available in our library.

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

please look at icg_ts_sync, read_ncdf, write_ncdf, icgs_correlate and the examples by plotxy and plot2d and so on

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/read_ncdf.tar.gz http://www.fz-juelich.de/icg/icg1/idl icglib/idl source/idl html/dbase/download/write ncdf.tar.gz http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/icg_ts_sync.tar.gz http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/icgs_correlate.tar.gz f names is a function which reads the short names from a netCDF File http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/f_names.tar.gz and for further routines and licensing please have a look at http://www.fz-juelich.de/icg/icg1/idl icglib/idl lib intro.h tml The data structure itselfs is with a lot of examples described in details in my publication: http://www.fz-juelich.de/zb/text/publikation/juel3786.html hope this helps a bit Reimar Reimar Bauer Institut fuer Stratosphaerische Chemie (ICG-1) Forschungszentrum Juelich email: R.Bauer@fz-juelich.de http://www.fz-juelich.de/icg/icg1/ a IDL library at ForschungsZentrum Juelich http://www.fz-juelich.de/icg/icg1/idl icglib/idl lib intro.h tml http://www.fz-juelich.de/zb/text/publikation/juel3786.html read something about linux / windows http://www.suse.de/de/news/hotnews/MS.html