
Subject: Re: IDL and NetCDF

Posted by [R.Bauer](#) on Wed, 13 Jun 2001 12:33:17 GMT

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"Claus Sielivsteen" 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 of
> 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 DblArr 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 Sielivsteen
>

Dear Claus,

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

This structure is used for several of our routines for input and output.

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.html

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.html

The data structure itself 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

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<http://www.fz-juelich.de/icg/icg1/>

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a IDL library at Forschungszentrum Juelich

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

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

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read something about linux / windows

<http://www.suse.de/de/news/hotnews/MS.html>