Subject: Re: plotting missing values
Posted by Paul Van Delst[1] on Wed, 04 Dec 2013 13:22:36 GMT

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Hello,

On 12/04/13 03:57, Fabien wrote:
> On 04.12.2013 02:00, David Fanning wrote:
>> Well, I've made changes over time that people who "say" they using
>> netCDF4 files have been happy with. I'm not currently working with
>> netCDF4 files, so I don't know for sure whether more is needed.
>
> NCDF_FILE is compatible with netCDF4 features (read, create, compression
> options). I just tried NCDF_BROWSER and it seems to work on my NetCDF4
> files too.

My netcdf4 files are replete with groups. Each group is self contained
and written by a separate object method - either as a subgroup (or
subsubgroup), or as a single file in its own right (all the processing
and writing code is Fortran2003, not IDL).

This flexibility is needed since all the subgroups are optional (e.g.
microwave sensors won't have non-LTE data, and infrared sensors won't
have antenna correction data).

All the datafile viewing code is IDL - but my simple netCDF reader
doesn't grok netcdf4.

Here is a (heavily truncated) ncdump of one of my files:

-----%<-----
netcdf amsua_metop-a.SpcCoeff {

// global attributes:
  :write_module_history = "$Id: ..." ;
  :creation_date_and_time = "2013/10/16, ..." ;
  :Release = 9 ;
  :Version = 1 ;
  :Title = "Spectral coefficients for MetOp-A AMSU-A" ;
  :History = "$Id: ..." ;
  :Comment = "Converted from ..." ;

group: spccoeff {
  group: sensorinfo {
    } // group sensorinfo
  group: accoeff {
    group: sensorinfo {
      } // group sensorinfo

```
      } // group accoeff
    } // group spccoeff
}
-----%<-----
```

Only the global attributes are read in with ncdf_data. When I click the
"Read Entire File" button I get:

```
IDL> ncdf_browser, 'amsua_metop-a.SpcCoeff.nc'
IDL>
```
A variable named "data" has been created at the main IDL level.

```
IDL> help, data
** Structure <1d6dc28>, 2 tags, length=120, data length=120, refs=1:
   _FILENAME      STRING    'amsua_metop-a.SpcCoeff.nc'
   _GLOBAL_ATTR   STRUCT    -> <Anonymous> Array[1]

IDL> help, data._global_attr
** Structure <2013138>, 8 tags, length=104, data length=104, refs=2:
   NCDF_FILENAME  STRING    'amsua_metop-a.SpcCoeff.nc'
   WRITE_MODULE_HISTORY
            STRING    '$Id: SpcCoeff_netCDF_IO.f90 '...
   CREATION_DATE_AND_TIME
            STRING    '2013/10/16, 15:05:07 -0400UTC'
   RELEASE       LONG            9
   VERSION       LONG            1
   TITLE         STRING    'Spectral coefficients for '...
   HISTORY       STRING    '$Id: SpcCoeff_Convert.f90 32636'...
   COMMENT       STRING    'Converted from Release-8 format'...
```

cheers,

paulv