Subject: plotting missing values
Posted by Krishnapriya M on Tue, 03 Dec 2013 11:09:50 GMT
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I just tried to plot a number of ncdf data sets using idl. Now I want to find where the missing values and also want to plot the values and missing values in the given time. Can u help me to solve this problem.

Subject: Re: plotting missing values
Posted by David Fanning on Tue, 03 Dec 2013 13:01:24 GMT
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Krishnapriya M writes:

> I just tried to plot a number of ncdf data sets using idl. Now I want to find where the missing values and also want to plot the values and missing values in the given time. Can u help me to solve this problem.

If you were to read your netCDF files with NCDF_File object from the
Coyote Library, you will be able to get this information directly from
the GetVarData method that reads the data out of the file. The FILLVALUE
keyword returns the missing data value, and the MISSINGINDICES keyword
returns the indices of the missing values in your data set. Note that
the method also applies whatever offset and scale factor are present in
the file to the data when it is read from the file.

http://www.idlcoyote.com/fileio_tips/ncdf_browser.html

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by Paul Van Delst[1] on Tue, 03 Dec 2013 15:44:04 GMT
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Howdy,

Is a netCDF4-capable version of your netcdf browser/ncdf_data program on
the cards?

(Refiled under "stuff I want" :o)

What's a $ estimate for the upgrade?

cheers,

paulv

p.s. disclaimer: I do not speak for my employer (and they do not speak for me)

On 12/03/13 08:01, David Fanning wrote:
> Krishnapriya M writes:
>
>> I just tried to plot a number of ncdf data sets using idl. Now I
>> want
to find where the missing values and also want to plot the values and missing values in the given time. Can u help me to solve this problem.
>
> If you were to read your netCDF files with NCDF_File object from the
> Coyote Library, you will be able to get this information directly from
> the GetVarData method that reads the data out of the file. The FILLVALUE
> keyword returns the missing data value, and the MISSINGINDICES keyword
> returns the indices of the missing values in your data set. Note that
> the method also applies whatever offset and scale factor are present in
> the file to the data when it is read from the file.
>
>   http://www.idlcoyote.com/fileio_tips/ncdf_browser.html
>
> Cheers,
>
> David
>

Subject: Re: plotting missing values
Posted by David Fanning on Wed, 04 Dec 2013 01:00:05 GMT
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Paul van Delst writes:

> Is a netCDF4-capable version of your netcdf browser/ncdf_data program on
> the cards?

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.

> What's a $ estimate for the upgrade?

I'd have to have a look. Can you send me a file of the type you think doesn't work well with the software? I'll have a look and see how much time I think it will take to make the software compatible with the file.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by Fabzi on Wed, 04 Dec 2013 08:57:00 GMT
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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.

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

Subject: Re: plotting missing values
Posted by Paul Van Delst[1] on Wed, 04 Dec 2013 13:25:07 GMT
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On 12/03/13 20:00, David Fanning wrote:
> Paul van Delst writes:
>
>> Is a netCDF4-capable version of your netcdf browser/ncdf_data program on
>> the cards?
>
> 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.
>
>> What's a $ estimate for the upgrade?
>
> I'd have to have a look. Can you send me a file of the type you think
> doesn't work well with the software? I'll have a look and see how much
> time I think it will take to make the software compatible with the file.

Done.

cheers,

paulv

Subject: Re: plotting missing values
Posted by David Fanning on Wed, 04 Dec 2013 15:41:17 GMT
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Paul van Delst writes:

> 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.

As you might expect, the documentation for netCDF4 is basically non-existent in the IDL documentation, beyond some new routines for handling groups. Does anyone know if there is a simple test I can perform in IDL to tell if the file is a netCDF3 as opposed to a netCDF4 file?

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by Fabzi on Wed, 04 Dec 2013 15:45:17 GMT
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Hi David,

On 04.12.2013 16:41, David Fanning wrote:
> Does anyone know if there is a simple test I can perform in IDL
> to tell if the file is a netCDF3 as opposed to a netCDF4 file?

I had a support request on this a couple of months ago. It will be included in IDL 8.3, I've been told. In the mean time they gave me following code, which works:

;+

```
; :Description:
;    Checks the format of a NCDF file without opening it
;    (CLASSIC, 64BIT or NETCDF4)
;
; :Returns:
;    A string::
;      - 'FORMAT_CLASSIC'
;      - 'FORMAT_64BIT'
;      - 'FORMAT_NETCDF4'
;      - 'Unknown'
;
; :Params:
;    filename: in, string
;              the path to the file to check
;
; :Author: Anonymous Developer from Exelis
;-
function w_ncdf_format, filename

  ON_ERROR, 2

  openr, unit, filename, /get_lun
  data = bytarr(4)
  readu, unit, data
  free_lun, unit

  case string(data) of
    string([67b, 68b, 70b, 1b]): return, 'FORMAT_CLASSIC'
    string([67b, 68b, 70b, 2b]): return, 'FORMAT_64BIT'
    string([137b, 72b, 68b, 70b]): return, 'FORMAT_NETCDF4'
    else: return, 'UNKNOWN'
  endcase

end
```

Subject: Re: plotting missing values
Posted by David Fanning on Wed, 04 Dec 2013 16:22:28 GMT
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Paul van Delst writes:

>> I'd have to have a look. Can you send me a file of the type you think
>> doesn't work well with the software? I'll have a look and see how much
>> time I think it will take to make the software compatible with the file.
>
> Done.

The netCDF4 file you sent me can be browsed with the H5_Browser supplied with IDL. If the good folks at ExelisVis would give me the code for that browser, I'd fix it so that it worked more intuitively. ;-)

So, I guess the question is, do we need a better HDF5/netCDF4 browser or do we just need a better way to get at the data in these files? I haven't yet looked at Mike Galloy's routines, but these are generally extremely reliable for these kinds of things.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
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Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by David Fanning on Wed, 04 Dec 2013 16:25:05 GMT
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David Fanning writes:

> The netCDF4 file you sent me can be browsed with the H5_Browser supplied
> with IDL. If the good folks at ExelisVis would give me the code for that
> browser, I'd fix it so that it worked more intuitively. ;-)

Well, maybe I do have this code. I'll have a look. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by chris_torrence@NOSPAM on Wed, 04 Dec 2013 16:27:51 GMT
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On Wednesday, December 4, 2013 9:22:28 AM UTC-7, David Fanning wrote:
> Paul van Delst writes:
>
>
>
>>> I'd have to have a look. Can you send me a file of the type you think
>
>>> doesn't work well with the software? I'll have a look and see how much
>
>>> time I think it will take to make the software compatible with the file.
>
>>
>
>> Done.
>
>
>
> The netCDF4 file you sent me can be browsed with the H5_Browser supplied
>
> with IDL. If the good folks at ExelisVis would give me the code for that
>
> browser, I'd fix it so that it worked more intuitively. ;-)
>
>
>
> So, I guess the question is, do we need a better HDF5/netCDF4 browser or
>
> do we just need a better way to get at the data in these files? I
>
> haven't yet looked at Mike Galloy's routines, but these are generally
>
> extremely reliable for these kinds of things.
>
>
>
> Cheers,
>
>
>
> David
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/

>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Hi David,
The h5_browser.pro should be in your lib directory. Feel free to hack away!
-Chris
p.s. the hdf_browser is shipped as a save file. Not sure why...

Subject: Re: plotting missing values
Posted by Paul Van Delst[1] on Wed, 04 Dec 2013 16:45:34 GMT
View Forum Message <> Reply to Message

Hello,

On 12/04/13 11:22, David Fanning wrote:
> Paul van Delst writes:
>
>>> I'd have to have a look. Can you send me a file of the type you think
>>> doesn't work well with the software? I'll have a look and see how much
>>> time I think it will take to make the software compatible with the file.
>>
>> Done.
>
> The netCDF4 file you sent me can be browsed with the H5_Browser supplied
> with IDL. If the good folks at ExelisVis would give me the code for that
> browser, I'd fix it so that it worked more intuitively. ;-)
>
> So, I guess the question is, do we need a better HDF5/netCDF4 browser or
> do we just need a better way to get at the data in these files? I

The latter. Browsing is nice, but being able to read the data simply,
over and over again, in a production-like setting is the goal.

Typically, I know what the variables names are. Once the data has been
read into a structure/object, getting the particular variable is trivial
(e.g. via a tag name match, or get_property method).

> haven't yet looked at Mike Galloy's routines, but these are generally
> extremely reliable for these kinds of things.

?

Mike has netCDF4 readers?

Crikey, I can't keep up!

cheers,

paulv

Subject: Re: plotting missing values
Posted by Paul Van Delst[1] on Wed, 04 Dec 2013 16:58:23 GMT
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Hello,

On 12/04/13 11:22, David Fanning wrote:
> Paul van Delst writes:
>
>>> I'd have to have a look. Can you send me a file of the type you think
>>> doesn't work well with the software? I'll have a look and see how much
>>> time I think it will take to make the software compatible with the file.
>>
>> Done.
>
> The netCDF4 file you sent me can be browsed with the H5_Browser supplied
> with IDL. If the good folks at ExelisVis would give me the code for that
> browser, I'd fix it so that it worked more intuitively. ;-)
>
> So, I guess the question is, do we need a better HDF5/netCDF4 browser or
> do we just need a better way to get at the data in these files? I
> haven't yet looked at Mike Galloy's routines, but these are generally
> extremely reliable for these kinds of things.

Based on the to-and-fro about HDF5, I tried the following:

IDL> result=h5_parse('amsua_metop-a.SpcCoeff.nc',/read_data)

and bugger me if it didn't work, making all the groups accessible:

```
IDL> help, result
** Structure <1e95a58>, 14 tags, length=33952, data length=33548, refs=1:
   _NAME           STRING    'amsua_metop-a.SpcCoeff.nc'
   _ICONTYPE       STRING    'hdf'
   _TYPE           STRING    'GROUP'
   _FILE           STRING    'amsua_metop-a.SpcCoeff.nc'
   _PATH           STRING    '/'
   _COMMENT        STRING    ''
   SPCCOEFF        STRUCT    -> <Anonymous> Array[1]
   WRITE_MODULE_HISTORY
                   STRUCT    -> <Anonymous> Array[1]
   CREATION_DATE_AND_TIME
                   STRUCT    -> <Anonymous> Array[1]
   RELEASE         STRUCT    -> <Anonymous> Array[1]
```

```
   VERSION         STRUCT    -> <Anonymous> Array[1]
   TITLE           STRUCT    -> <Anonymous> Array[1]
   HISTORY         STRUCT    -> <Anonymous> Array[1]
   COMMENT         STRUCT    -> <Anonymous> Array[1]

IDL> help, result.spccoeff
** Structure <208a1e8>, 19 tags, length=33032, data length=32628, refs=2:
   _NAME           STRING    'spccoeff'
   _ICONTYPE       STRING    ''
   _TYPE           STRING    'GROUP'
   _FILE           STRING    'amsua_metop-a.SpcCoeff.nc'
   _PATH           STRING    '/'
   _COMMENT        STRING    ''
   BAND_C1         STRUCT    -> <Anonymous> Array[1]
   BAND_C2         STRUCT    -> <Anonymous> Array[1]
   CHANNEL_FLAG    STRUCT    -> <Anonymous> Array[1]
   COSMIC_BACKGROUND_RADIANCE
                   STRUCT    -> <Anonymous> Array[1]
   FREQUENCY       STRUCT    -> <Anonymous> Array[1]
   PLANCK_C1       STRUCT    -> <Anonymous> Array[1]
   PLANCK_C2       STRUCT    -> <Anonymous> Array[1]
   SENSOR_CHANNEL  STRUCT    -> <Anonymous> Array[1]
   SOLAR_IRRADIANCE
                   STRUCT    -> <Anonymous> Array[1]
   WAVENUMBER      STRUCT    -> <Anonymous> Array[1]
   ACCOEFF         STRUCT    -> <Anonymous> Array[1]
   N_CHANNELS      STRUCT    -> <Anonymous> Array[1]
   SENSORINFO      STRUCT    -> <Anonymous> Array[1]

IDL> help, result.spccoeff.accoeff
** Structure <1d538e8>, 13 tags, length=14608, data length=14424, refs=2:
   _NAME           STRING    'accoeff'
   _ICONTYPE       STRING    ''
   _TYPE           STRING    'GROUP'
   _FILE           STRING    'amsua_metop-a.SpcCoeff.nc'
   _PATH           STRING    '/spccoeff'
   _COMMENT        STRING    ''
   A_EARTH         STRUCT    -> <Anonymous> Array[1]
   A_PLATFORM      STRUCT    -> <Anonymous> Array[1]
   A_SPACE         STRUCT    -> <Anonymous> Array[1]
   SENSOR_CHANNEL  STRUCT    -> <Anonymous> Array[1]
   N_CHANNELS      STRUCT    -> <Anonymous> Array[1]
   N_FOVS          STRUCT    -> <Anonymous> Array[1]
   SENSORINFO      STRUCT    -> <Anonymous> Array[1]

IDL> help, result.spccoeff.accoeff.sensorinfo
** Structure <1e82768>, 20 tags, length=9976, data length=9876, refs=2:
   _NAME           STRING    'sensorinfo'
```

```
   _ICONTYPE       STRING    ''
   _TYPE           STRING    'GROUP'
   _FILE           STRING    'amsua_metop-a.SpcCoeff.nc'
   _PATH           STRING    '/spccoeff/accoeff'
   _COMMENT        STRING    ''
   NOISE           STRUCT    -> <Anonymous> Array[1]
   POLARIZATION_TYPE
                   STRUCT    -> <Anonymous> Array[1]
   SATELLITE_NAME  STRUCT    -> <Anonymous> Array[1]
   SENSOR_CHANNEL  STRUCT    -> <Anonymous> Array[1]
   SENSOR_ID       STRUCT    -> <Anonymous> Array[1]
   SENSOR_NAME     STRUCT    -> <Anonymous> Array[1]
   SENSOR_TYPE     STRUCT    -> <Anonymous> Array[1]
   USE_FLAG        STRUCT    -> <Anonymous> Array[1]
   WMO_SATELLITE_ID
                   STRUCT    -> <Anonymous> Array[1]
   WMO_SENSOR_ID   STRUCT    -> <Anonymous> Array[1]
   DL_STRLEN       STRUCT    -> <Anonymous> Array[1]
   N_CHANNELS      STRUCT    -> <Anonymous> Array[1]
   N_FOVS          STRUCT    -> <Anonymous> Array[1]
   SL_STRLEN       STRUCT    -> <Anonymous> Array[1]
```

And the data is there:

```
IDL> help, result.spccoeff.frequency
** Structure <1ea1388>, 18 tags, length=856, data length=848, refs=2:
   _NAME           STRING    'Frequency'
   _ICONTYPE       STRING    'binary'
   _TYPE           STRING    'DATASET'
   _FILE           STRING    'amsua_metop-a.SpcCoeff.nc'
   _PATH           STRING    '/spccoeff'
   _DATA           DOUBLE    Array[15]
   _NDIMENSIONS    LONG              1
   _DIMENSIONS     ULONG64   Array[1]
   _NELEMENTS      ULONG64                  15
   _DATATYPE       STRING    'H5T_FLOAT'
   _STORAGESIZE    ULONG             8
   _PRECISION      LONG              64
   _SIGN           STRING    ''
   LONG_NAME       STRUCT    -> <Anonymous> Array[1]
   DESCRIPTION     STRUCT    -> <Anonymous> Array[1]
   UNITS           STRUCT    -> <Anonymous> Array[1]
   _FILLVALUE      STRUCT    -> <Anonymous> Array[1]
   DIMENSION_LIST  STRUCT    -> <Anonymous> Array[1]
```

```
IDL> print, result.spccoeff.frequency._data
```

23.800904	31.400728	50.300069	52.799890
53.596155	54.400633	54.940002	55.499802
57.290327	57.290327	57.290327	57.290327
57.290327	57.290327	88.997000	

Yay.

So I guess netcdf4 files are just hdf5 files with a fancier name?

cheers,

paulv

Subject: Re: plotting missing values
Posted by David Fanning on Wed, 04 Dec 2013 17:05:38 GMT
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Paul van Delst writes:

> Typically, I know what the variables names are. Once the data has been
> read into a structure/object, getting the particular variable is trivial
> (e.g. via a tag name match, or get_property method).

It looks to me like H5_Parse can read this data file into a structure in
a blink of an eye. ;-)

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by David Fanning on Wed, 04 Dec 2013 17:12:47 GMT
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Paul van Delst writes:

> Based on the to-and-fro about HDF5, I tried the following:
>
> IDL> result=h5_parse('amsua_metop-a.SpcCoeff.nc',/read_data)
>

> and bugger me if it didn't work, making all the groups accessible:

There you go! Job done. Two hours spent on research. Total economic
appreciation for the week so far: $10.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by Paul Van Delst[1] on Wed, 04 Dec 2013 17:37:51 GMT
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On 12/04/13 12:12, David Fanning wrote:
> Paul van Delst writes:
>
>> Based on the to-and-fro about HDF5, I tried the following:
>>
>> IDL> result=h5_parse('amsua_metop-a.SpcCoeff.nc',/read_data)
>>
>> and bugger me if it didn't work, making all the groups accessible:
>
> There you go! Job done. Two hours spent on research. Total economic
> appreciation for the week so far: $10.

Jeez mate, that's not even minimum wage!

Subject: Re: plotting missing values
Posted by David Fanning on Wed, 04 Dec 2013 17:51:37 GMT
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Paul van Delst writes:

> Jeez mate, that's not even minimum wage!

No, MacDonald's is going to be a step up. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by David Fanning on Thu, 05 Dec 2013 00:51:21 GMT
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Paul van Delst writes:

> So I guess netcdf4 files are just hdf5 files with a fancier name?

Guess so. Even H5F_IS_HDF5 returns true when passed the name of your
netCDF4 file!

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: plotting missing values
Posted by Michael Galloy on Thu, 05 Dec 2013 01:07:50 GMT
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On 12/4/13, 5:51 pm, David Fanning wrote:
> Paul van Delst writes:
>
>> So I guess netcdf4 files are just hdf5 files with a fancier name?
>
> Guess so. Even H5F_IS_HDF5 returns true when passed the name of your
> netCDF4 file!
>
> Cheers,
>

> David
>
>

Yes, my understanding is netCDF 4 files are just HDF 5 files with some
naming conventions. netCDF 4 is not a file type; it is an API.

Mike
--
Michael Galloy
www.michaelgalloy.com
Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
Research Mathematician
Tech-X Corporation

Subject: Re: plotting missing values
Posted by David Fanning on Thu, 05 Dec 2013 01:16:37 GMT
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Michael Galloy writes:

> Yes, my understanding is netCDF 4 files are just HDF 5 files with some
> naming conventions. netCDF 4 is not a file type; it is an API.

What does "naming conventions" mean? Is this like conventions to make
the file CF-compliant?

Cheers,

David
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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
