
Subject: IDL and GRIB

Posted by [s.fdr70](#) on Tue, 27 Dec 2016 14:57:05 GMT

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Dear all,

I'm trying to run the following IDL code:

```
-----  
pro read_grb2  
  
file = FILEPATH('atl.grb2', $  
  SUBDIRECTORY=['examples','data'])  
;FILE_COPY,file,dir+'atl.grb2'  
GRIB_LIST,dir+'atl.grb2'  
  
record = ORDEREDHASH()  
record['GRIBEditionNumber']=2  
record['values'] = dblarr(1024)  
GRIB_PUTDATA, dir+file, record  
  
end  
-----
```

It should add "record" to the grib file atl.grb2 (that was copied in my home directory).
When I run the code I get the following error:

```
% Loaded DLM: GRIB.  
% Compiled module: GRIB_LIST.  
1  crain  DOUBLEARRAY[141151]  
2  usct   DOUBLEARRAY[141151]  
3  vsct   DOUBLEARRAY[141151]  
4  tsec   DOUBLEARRAY[141151]  
% Compiled module: GRIB_PUTDATA.  
% GRIB_PUTDATA: GRIB_SET: Value is read only  
% Execution halted at: READ_GRB2      123  
  /Users/stefano/fdgrib2/read_grb2.pro  
%              $MAIN$
```

I cannot understand the reason for this error. Does anybody have an idea?

Thanks

Stefano

Subject: Re: IDL and GRIB

Posted by [Dick Jackson](#) on Fri, 30 Dec 2016 01:30:01 GMT

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On Tuesday, 27 December 2016 06:57:08 UTC-8, s.fd...@gmail.com wrote:

```
> Dear all,
>
> I'm trying to run the following IDL code:
>
> -----
> pro read_grb2
>
> file = FILEPATH('atl.grb2', $
>   SUBDIRECTORY=['examples','data'])
> ;FILE_COPY,file,dir+'atl.grb2'
> GRIB_LIST,dir+'atl.grb2'
>
> record = ORDEREDHASH()
> record['GRIBEditionNumber']=2
> record['values'] = dblarr(1024)
> GRIB_PUTDATA, dir+file, record
>
> end
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> % Compiled module: GRIB_LIST.
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> 3  vsct   DOUBLEARRAY[141151]
> 4  tsec   DOUBLEARRAY[141151]
> % Compiled module: GRIB_PUTDATA.
> % GRIB_PUTDATA: GRIB_SET: Value is read only
> % Execution halted at: READ_GRB2      123
>   /Users/stefano/fdgrib2/read_grb2.pro
> %
>           $MAIN$
>
> I cannot understand the reason for this error. Does anybody have an idea?
>
> Thanks
>
> Stefano
```

Hi Stefano,

I'm guessing that the code you ran is not **exactly** what you quoted, because 'dir' doesn't seem to be given a value before it is used. In any case, if GRIB_LIST worked with dir+'atl.grb2', and if you

are getting 'file' from FILEPATH(), which returns a fully-qualified path, you would be calling GRIB_PUTDATA with a filename of something like
/path/to/examples/data/path/to/examples/data/atl.grb2, which I will guess does not exist.

The "Value is read only" message doesn't really point to this sort of problem, but you never can tell with error messages... Is that in fact the problem?

Cheers,
-Dick

Dick Jackson Software Consulting Inc.
Victoria, BC, Canada --- <http://www.d-jackson.com>

Subject: Re: IDL and GRIB
Posted by [s.fdr70](#) on Sat, 31 Dec 2016 06:26:39 GMT
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Dear Dick,

thank you for your answer . You were right and "dir" was my home directory. But I did some mistake because now the code works and I can add the records to the file "atl.grb2".
I'm wondering if there is a code example in the IDL documentation where I can find an example of writing a new grib(2) file , i.e. without using the file atl.grb2 as the starting point.

Thanks .

Stefano

Il giorno venerdì 30 dicembre 2016 02:30:04 UTC+1, Dick Jackson ha scritto:
> On Tuesday, 27 December 2016 06:57:08 UTC-8, s.fdr...@gmail.com wrote:
>> Dear all,
>>
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>>
>> -----
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>>
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>> GRIB_LIST,dir+'atl.grb2'
>>
>> record = ORDEREDHASH()
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>> GRIB_PUTDATA, dir+file, record
>>
>> end

```

>> -----
>>
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>> % GRIB_PUTDATA: GRIB_SET: Value is read only
>> % Execution halted at: READ_GRB2      123
>>   /Users/stefano/fdgrib2/read_grb2.pro
>> %
>>           $MAIN$
>>
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>> Thanks
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>> Stefano
>
> Hi Stefano,
>
> I'm guessing that the code you ran is not *exactly* what you quoted, because 'dir' doesn't seem
> to be given a value before it is used. In any case, if GRIB_LIST worked with dir+'atl.grb2', and if
> you are getting 'file' from FILEPATH(), which returns a fully-qualified path, you would be calling
> GRIB_PUTDATA with a filename of something like
> /path/to/examples/data/path/to/examples/data/atl.grb2, which I will guess does not exist.
>
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> tell with error messages... Is that in fact the problem?
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> -Dick
>
> Dick Jackson Software Consulting Inc.
> Victoria, BC, Canada --- http://www.d-jackson.com

```
