Subject: Re: IDL: problem on reading ncdf file with short type data
Posted by Maxwell Peck on Thu, 01 Apr 2010 12:24:24 GMT

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As I mentioned previously short is integer. Short just means a 16 bit
integer not a 32 bit integer it seems to be read and stored
correctly... Unless im missing something here..

What is the value you get from Grads and how does this compare to IDL
for the same pixel.

Max

On Apr 1, 10:59 pm, "Kwang. Jae LEE" <iglea...@gmail.com> wrote:
> still I have problem unsolved on my previous question ' IDL: Wrong
> data type when reading ncdf file in IDL'
>
> using well-know data in meterology
> reading it...
>
> fname = 'pres.sfc.mon.mean.nc'http://www.cdc.noaa.gov/cdc/data.reanalysis2.html
> ---
> id=NCDF_OPEN(file)
> NCDF_VARGET, id, 'pres', data
>   NCDF_ATTGET, id, 'pres', 'missing_value', miss
>   NCDF_ATTGET, id, 'pres', 'scale_factor', scalef
>   NCDF_ATTGET, id, 'pres', 'add_offset', offset
> NCDF_CLOSE, id
>
> data=data*scalef+offset
>
> ---
>
> -- from 'ncdump -h commend' , data type is 'short'
> short pres(time, lat, lon) ;
>
> -- right after 'NCDF_VARGET commend' data type shown
> IDL> help, data
> DATA   INT   = Array[144, 73, 372]
>
> data is stored as interger type not short type
>
> after calc. : data=data*scalef+offset
> data type is changed into float type because scalef is float type. i
> missunderstood it's done.
> but when it was written as ineger type. , real value after point is
> missing.

> that's why the value I checked from another tool called 'Grads' is
> different from that by IDL
> I think there's another option to read short type data in IDL using
> 'NC commend'
> I had no problem with float type data
>
> any idea????
>
> thanks

Subject: Re: IDL: problem on reading ncdf file with short type data
Posted by David Fanning on Thu, 01 Apr 2010 12:26:18 GMT
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Kwang. Jae LEE writes:

> -- from 'ncdump -h commend' , data type is 'short'
> short pres(time, lat, lon) ;
>
>
> -- right after 'NCDF_VARGET commend' data type shown
> IDL> help, data
> DATA   INT   = Array[144, 73, 372]
>
> data is stored as interger type not short type

SHORT is netCDF terminology for an INT. It's like
calling the large cat that was seen in one of the
local parks around here a "cougar" as opposed to
a "mountain lion". If someone called it a "cougar",
you would know that person grew up in the Eastern
US. But you would still know to get the kids inside. :-)

Cheers,

David

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

Subject: Re: IDL: problem on reading ncdf file with short type data
Posted by Kwang. Jae LEE on Thu, 01 Apr 2010 12:48:52 GMT

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Thanks
I'll check again.
then I did wrong in another point. T_T

Subject: Re: IDL: problem on reading ncdf file with short type data
Posted by Kwang. Jae LEE on Thu, 01 Apr 2010 13:15:14 GMT

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> Thanks
> I'll check again.
> then I did wrong in another point. T_T

I solved my problem..
my second question looked too stupid after I solved it.
so I tried to delete my qustion, but I didn't know only mine is
erased, not whole...
your answer is left without my question, it could seems rude, I didn't
mean, sorry for that ^^
I'm also begginer using this board..

thanks all for your help.

regrads

KJ

Subject: Re: IDL: problem on reading ncdf file with short type data
Posted by David Fanning on Thu, 01 Apr 2010 13:39:19 GMT

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Kwang. Jae LEE writes:

> my second question looked too stupid after I solved it.
> so I tried to delete my qustion,

Most questions look pretty lame after the answer is
known. But, I think you will find that hitting the
SEND button is more effective than just about anything
I know for forcing the answer front and center in the
human brain. Feeling lame is more or less normal for
those of us who continue to hit that SEND button. :-)

Cheers,

David

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