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