
Subject: Dimensions in NetCDF files created by IDL
Posted by [Tolly](#) on Tue, 11 Mar 2008 08:55:43 GMT
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Hello,
I have created NetCDF file for variable with
dimension (t,x,y,mon) using following code,
but the problem is that when looking at the file with
ncdump the dimensions of the variable have the
the opposite order, (mon,y,x,t)
Does anyone have an idea what the problem is
when writing the variable?
cheers,
Tolly

```
;;T_mon has dimensions (1,165,281,12)
```

```
SSize=size(T_mon)
```

```
id=NCDF_CREATE('T_mon.nc',/CLOBBER)  
NCDF_CONTROL,id,/FILL  
Dim1 = NCDF_DIMDEF(id,'t',SSize(1))  
Dim2 = NCDF_DIMDEF(id,'x',SSize(2))  
Dim3 = NCDF_DIMDEF(id,'y',SSize(3))  
Dim4 = NCDF_DIMDEF(id,'mon',SSize(4))
```

```
VarId1 = NCDF_VARDEF(id,'temp_mon',[Dim1,Dim2,Dim3,Dim4], /FLOAT)  
NCDF_ATTPUT,id,VarId1, "long_name", 'monthly mean surface temperature'  
NCDF_ATTPUT,id,VarId1, "standard_name", 'land_ice_monthly_temperature'  
NCDF_ATTPUT,id,VarId1, "units", 'K'  
NCDF_ATTPUT,id,VarId1, "missing_value", 'none'
```

```
NCDF_CONTROL, id, /ENDEF  
NCDF_VARPUT, id, VarId1,T_mon
```

```
NCDF_CLOSE,id
```

the ncdump gives however the following:

```
netcdf T_mon {  
dimensions:  
    t = 1 ;  
    x = 165 ;  
    y = 281 ;  
    mon = 12 ;  
variables:  
    float temp_mon(mon, y, x, t) ;
```

```
        temp_mon:long_name = "monthly mean surface  
temperature" ;  
        temp_mon:standard_name =  
"land_ice_monthly_temperature" ;  
        temp_mon:units = "K" ;  
        temp_mon:missing_value = "none" ;  
}
```
