
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" ;  
}
```
