
Subject: Re: The good way to use cdfid's
Posted by [Maarten\[1\]](#) on Tue, 07 Jun 2011 14:04:59 GMT
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On Jun 7, 12:22 pm, Fabzou <fabien.mauss...@tu-berlin.de> wrote:

[...]

> IDL cannot open any further NCDF files afterwards. RESET_SESSION won't
> change anything, just restart the workbench will do it...
>
> How is this possible ??? Could it be related to the fact that we also
> have ENVI installed on our computers? Is it related to the internal Ncdf
> libraries ???

Here in the Netherlands (KNMI) we are struggling with a similar issue.

Sample code:

```
for i=0L,9999999 do begin
  print, i
  ncid = NCDF_OPEN('TM5_V1_griddef.nc')
  NCDF_CLOSE, ncid
endfor
end
```

This will crash (or rather hang) IDL on the system of a coworker with i between 100,000 and 900,000 (notice that nothing is done with the netcdf file at all, just open and close). My (supposedly identical) machine runs this without issue. We haven't been able to identify anything different in our environment, files are not accessed over the network, ... we're at a loss.

Some hints:

- * there is an ITTVIS incident on the subject: 241865. They can reproduce the issue, perhaps you can help connect the dots.
- * The issue also can occur with hdf-4 and hdf-5 files.
- * A switch in the version of the HDF-5 library (1.6.X to 1.8.Y) in IDL8 may have to do with the appearance of the issue. But you are dealing with netcdf (3, I presume?) so that may not apply. Of course it is possible that IDL8 switched to netcdf4 and therefore inherits all behaviour (good and bad) of hdf-5. The HDF5 helpdesk is also aware of this issue. They have identified an issue in some of the files we're working with, and pointed to a possible cause. A resolution is not available though. HDF-5 1.6.X (X < 5) can read these files (minus the corrupted part), later versions of the HDF-5 library will simply crash when the corrupted part is read.

```
IDL> print, !VERSION  
{ x86 linux unix linux 8.0.1 Oct 6 2010 32 64}  
(as far as I know, this happened in IDL 7 as well).
```

All clues for a solution are appreciated,

Maarten
