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Subject: Re: NetCDF version in IDL 8.6?

Posted by [Kenneth Bowman](#) on Thu, 02 Mar 2017 19:13:35 GMT

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On Wednesday, March 1, 2017 at 3:03:35 PM UTC-6, k-bo...@tamu.edu wrote:

>> \*\* NCDF - IDL NetCDF support (not loaded)

>> Version: 4.3.2, Build Date: NOV 21 2016, Source: Exelis Visual Information Solutions, Inc.

>> Path: /usr/local/harris/idl86/bin/bin.linux.x86\_64/idl\_netcdf.so

>>

>> regards,

>> Lajos

>

> Thanks, Lajos. It looks like the problem may be happening in 8.4, but not in 8.5 (despite being the same version of netCDF). Will do further testing.

>

> Ken

Unfortunately, the problem is not resolved in IDL 8.5 (and I expect in 8.6, which uses the same version of netCDF).

After much trial and error testing, the problem appears to be linked to use of the `CHUNK_DIMENSIONS` keyword when creating netCDF-4 files. When we omit `CHUNK_DIMENSIONS`, the problem does not occur. In our case all the variables have no unlimited dimensions, so when `CHUNK_DIMENSIONS` is omitted the chunk size is the entire variable (assuming the docs are correct).

Contrary to the IDL docs, however, gzip compression *does* work when the `CHUNK_DIMENSIONS` keyword is omitted.

Fortunately for us, omitting the `CHUNK_DIMENSIONS` keyword will not cause any issues with our files.

The versions of netCDF and HDF5 that are currently included with IDL are quite out of date. I will be submitting a bug report and a request that Harris use more recent versions of those libraries and fix some errors in the netCDF documentation.

Cheers, Ken

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