
Subject: Re: little and big endian -- once more
Posted by [Liam Gumley](#) on Thu, 13 May 1999 07:00:00 GMT
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Martin Schultz wrote:

- > So, I guess, I should give Liam's suggestion a try.
- > Unfortunately, it seems that you must know what's in the file in order
- > to test it, but that's probably a good idea anyway when you are dealing
- > with binary files ;-)

Yeah, it's pretty hard to read a binary file if you don't know the format.

- > Just for clarification: is it true that the
- > endian matters for integers as well as floats?

Yes, it's true.

Here at SSEC we've messed with porting binary datafiles for years. However in the last year or so, netCDF has become very widely used in our applications. Some of the reasons are:

- (1) No more byte-swapping worries, ever.
- (2) The same IDL code can read the same datafile and give the same results on any IDL platform (Unix, Linux, Windows, Mac).
- (3) If you give someone the file and tell them it's netCDF, they can then easily figure out what it contains. You don't need to tell them the format details.
- (4) The netCDF API is available for Fortran77/90, C, C++, IDL, Matlab, perl, Python, and Java.
- (5) The API is very simple and concise: the only things you can store in a netCDF file are arrays, attributes, and dimensions. However, you can create structures using these building blocks which are as simple or as complex as you like.
- (6) netCDF supports the following IDL datatypes: BYTE, STRING, INT, LONG, FLOAT, DOUBLE.

More information is available at
<http://www.unidata.ucar.edu/packages/netcdf/faq.html>

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