Subject: 32bit signed integer problems
Posted by Burkhard Prause on Mon, 13 Apr 1998 07:00:00 GMT
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I try to read what I believe are 32 bit signed integer binary data files.

They represent three dimensional data structures of 256 x 128 x 128 pixels. Each file therefore is 16777216 byte long. I read them into IDL as follows:

- > openr, 1, file
- > array=lonarr(256,128,128)
- > readu, 1, array

Array then turns out to contain sheer noise. If I read the data file into a one dimesional vector, then extract 16 bit integers by reading every third and fourth byte into a 256x128x128 integer array, I can produce the "correct" image. So my data set is not garbage. However, by doing this I basically limit my contrast, because all values larger than 2^16 are read as 65536.

Any suggestions what I may be doing wrong here?

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Subject: Re: 32bit signed integer problems
Posted by Burkhard Prause on Sun, 03 May 1998 07:00:00 GMT
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William Connolley wrote:

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- > In article 38A5@campra.phys.nd.edu, Burkhard Prause bprause@campra.phys.nd.edu writes:
- >> I try to read what I believe are 32 bit signed integer binary data
- >> files.
- >> Any suggestions what I may be doing wrong here?

> Were they produced on the same machine that you're reading them on? > le do you have byteswap problems? -W.

> William M Connolley | wmc@bas.ac.uk | http://www.nbs.ac.uk/public/icd/wmc/

> Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself

I tried writing in BigEndian and little endian byteorder -same problem. I'll try to use BYTEORDER, as suggested - maybe my source code byte ordering did not do what I wanted it to.

Thanks,

Burke

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