
Subject: Re: integer to float?

Posted by [menakkis](#) on Mon, 13 Jul 1998 07:00:00 GMT

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"Jonas" <jonas_2@hotmail.com> wrote:

- > I have an image file from our Siemens Magnetom scanner.
- > the format is stored as bigendian and is originally in 32-bit float format.
- > Since I'm new at this I would like some guidance in retrieving the pixel
- > information in a smooth way. I have written some code like this:
- > Read image information to vector as 32-bit integer
- > perform byte-swap
- > save in new file as byte
- > read new file as 32-bit float and sort the data to a complex array.
- >
- > It works fine, but I would prefer to convert from integer to float without
- > having to save to a new file. How is that done?

I don't quite see what you are up to here. If I'm reading between the lines correctly, it seems that your image is not actually FLOAT but single-precision complex, and you are uncertain about how BYTEORDER will deal with complex. Either way, you can perform the byte re-ordering without using a temporary file. Simply read the original image into an array of the correct type (FLOAT or COMPLEX?) and then do:
BYTEORDER,my_image_array,/LSWAP

This will do the proper byte order reversal (genuine bigendian to genuine smallendian) for LONG, FLOAT or (single-precision) COMPLEX.

Peter Mason

-----== Posted via Deja News, The Leader in Internet Discussion ==-----
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