
Subject: Re: Byte to Real conversion
Posted by [David Foster](#) on Fri, 19 Feb 1999 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Michael A. Wirth wrote:

>
> Hi,
>
> I am reading some data in from an Magnetic Resonance image which stores
> information about the image in
> a 14336 byte header. I want to extract some of the data from this header
> and am having a problem
> with converting data to integers and reals. The integers are 2-bytes and
> the reals 4-bytes in length. How does
> one convert 4 bytes into a real number?

Michael -

Hmm, that number 14336 sure looks familiar! Are you working with GE Signa images by any chance? I have C code that has routines to pull out integer, byte, and float information from the header. The main routine prints out a listing of important information from the header. There is also a .h file that lists the offsets for every entry in the file.

The conversion of floats does **not** look straightforward!

I'll send you an email with this code attached. I haven't had time to port the code to IDL, so I wrote a short wrapper that spawns the C program and returns the info in a structure. Let me know if you're interested in this.

Hope this helps.

Dave

--

~~~~~  
David S. Foster      Univ. of California, San Diego  
Programmer/Analyst   Brain Image Analysis Laboratory  
foster@bial1.ucsd.edu   Department of Psychiatry  
(619) 622-5892      8950 Via La Jolla Drive, Suite 2240  
                         La Jolla, CA 92037  
~~~~~