Subject: Re: Reading binary data whose source code not given
Posted by 8015 on Wed, 18 May 1994 16:33:12 GMT
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In article <2rd8ft$hn2@mojo.eng.umd.edu>,
Rajiv Madabhushi <madabhus@eng.umd.edu> wrote:
>
> I have a binary file with a 400 by 400 array. All I know about the
> elements of that array is that they are written as 16-bit 2's complement
> data. The file was created on a pc. I am no sure about what language
> the software that creates this file is written in (and cannot
> find out :-( ).
>
> I am using IDL version 3.0 on a Sun SPARC 10 workstation. I have tried

Going from the PC to a Sun SPARC you will need to swap the byte order
of the file. You can do this within IDL using the byteorder command
(byteorder, data, /options), or from the Unix command line using the dd
command (dd if=infile of=outfile conv=swab). Correct me if I'm wrong,
but I don't think the 2's complement info comes into play. The
following ought to allow you to get the data to a point where it is
useable.

openr, lun, 'pc_file', /get_lun ; open the file for reading
fvar = fstat(lun) ; optional - in case all your data is not 400x400
arr_size = fix(sqrt(fvar.size)) ; optional - get array size from file size
data = intarr(arr_size, arr_size) ; allocate an array to hold the data
readu, lun, data ; read the file into an array
byteorder, data ; change the byte order of the array
...

Hope that works, or at least gives you a starting point.

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