
Subject: Re: Help: Byte-swapping program
Posted by [grunes](#) on Mon, 12 Dec 1994 20:16:41 GMT
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> Yes, but neither of those seem to be sufficient. In my case (and I
> believe in the case of the original poster), we've got VAX floating
> point numbers to be read into IEEE format on a machine who's local
> format *is* IEEE. Unless I'm missing something in my reading of the
> manual, that's not covered by IDL's conversion functions.
> I've got some code lying around somewhere that I wrote to go from
> VAX to IEEE floating point (single-precision), which I'll dig up if
> I don't see any other solution go by before I get back from my travels.

The Fortran code for routine FromVaxR4 that I posted in my original
response would do the that part of the job. Since the person was
working on a Sun--in Sun Fortran, if you do

```
open(1,file=name,access='direct',recl=1,form='unformatted')  
and you want to look at the real*4 number at byte # n (where the first  
byte is #1), you would say
```

```
read(1,rec=n)i  
and say  
x=FromVaxR4(i)
```

to convert it to local floating point. Similar open and write
statements could output to a local format file. Most other Fortrans
have some form of open to do a similar job.

However, I imagine most readers of this newsgroup prefer to use IDL
or PV-Wave. Perhaps someone with time on their hands would like
to translate my code to IDL/Wave?

(opinions expressed are mine alone)

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