Subject: Re: reading f77_unformatted and writing it as ascii file Posted by David Fanning on Tue, 21 Dec 2004 23:13:07 GMT

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Jaehyung Yu writes:

```
> I downloaded f77_unformatted data file and tried to extract the information
  to ascii format.
 However, the output file I extracted has only one value of "0".
>
  The dataset is 1400x1400 float array. I used the following lines. Can
  somebody help me what I did wrong?
>
  Thank you in advance.
>
> IDL> file = 'bal_flux.bas_smooth35'
> IDL> openr, lun, file, /f77_unformatted, /get_lun
> IDL > nx = 0L & ny = 0L
> IDL> readu, lun, nx, ny
> IDL> print, nx, ny
       1400
                 1400
> IDL> bal_flux = fltarr(nx, ny)
> IDL> help, bal_flux
    BAL_FLUX
                     FLOAT
                               = Array[1400, 1400]
> IDL> free_lun, lun
> IDL> outfile = 'outfile.txt'
> IDL> openw, lun_out, outfile, /get_lun
> IDL> printf, lun_out, bal_flux
> IDL> free_lun, lun_out
> Your help is very important and urgent to me.
```

Uh, I think you forgot to read the data into your bal_flux array. You have made it the right size (and you have filled it with zeros), but you didn't read the data out of the file. You probably need another READU in there somewhere. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: reading f77_unformatted and writing it as ascii file Posted by K. Bowman on Tue, 21 Dec 2004 23:13:51 GMT

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In article <cqa9h7\$3np\$1@news.tamu.edu>, "Jaehyung Yu" <jaeyu@tamu.edu> wrote:

```
> Dear all,
> I downloaded f77 unformatted data file and tried to extract the information
  to ascii format.
 However, the output file I extracted has only one value of "0".
>
  The dataset is 1400x1400 float array. I used the following lines. Can
  somebody help me what I did wrong?
>
  Thank you in advance.
>
> IDL> file = 'bal_flux.bas_smooth35'
> IDL> openr, lun, file, /f77_unformatted, /get_lun
> IDL > nx = 0L & ny = 0L
> IDL> readu, lun, nx, ny
> IDL> print, nx, ny
       1400
                 1400
> IDL> bal flux = fltarr(nx, ny)
 IDL> READU, lun, bal_flux
> IDL> help, bal_flux
    BAL FLUX
                     FLOAT
                               = Array[1400, 1400]
> IDL> free lun, lun
> IDL> outfile = 'outfile.txt'
> IDL> openw, lun_out, outfile, /get_lun
> IDL> printf, lun_out, bal_flux
> IDL> free lun, lun out
>
  Your help is very important and urgent to me.
>
>
> Sincerely,
>
```

You forgot to read bal_flux. This assumes the F77 file was written with two WRITES. It should have $((1400 \times 1400) + 2 + 4) \times 4$ bytes.

Ken Bowman