
Subject: Re: reading f77_unformatted and writing it as ascii file
Posted by [David Fanning](#) on Tue, 21 Dec 2004 23:13:07 GMT
[View Forum Message](#) <> [Reply to Message](#)

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 = fitarr(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
[View Forum Message](#) <> [Reply to Message](#)

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
