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Subject: Re: reading binary files

Posted by [Vince Oliver](#) on Tue, 19 Jun 2007 15:06:13 GMT

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paul, when I do

```
spectra = ASSOC(lun,{RecBegin:0L, Data:FLTARR(2,n), RecEnd:0L})
spectrum = spectra[0]
print, spectrum
```

I endeed have:

```
SPECTRUM      STRUCT  = -> <Anonymous> Array[1]
{   58584    91.0000 2.04773e-023
  94.0000 5.73142e-023
  96.0000 1.12218e-022
  98.0000 2.17056e-022
  100.000 4.00652e-022
...}
```

How to get these elements?

On Jun 19, 4:47 pm, Paul van Delst <Paul.vanDe...@noaa.gov> wrote:

> Vince Oliver wrote:

```
>> we are maybe on the good way. I wrote this
>
>> OpenR, lun, data, /Get_Lun, /F77_UNFORMATTED
>
>> specnr=2
>> nlen=7323
>> n=2*nlen
>> specoff=(n+1)*specnr*4I ; this is letter L not number 1
>> spectra = Assoc(lun, Fltarr(n),specoff)
>
> what about something like,
>
>> spectra = ASSOC(lun,{RecBegin:0L, Data:FLTARR(2,n), RecEnd:0L})
> spectrum = spectra[0]
>
```

> ?  
>  
> Do the spectrum.data contain the correct info? Additionally, are the values of  
> spectrum.recbegin and spectrum.recend the same as  $2^*n^*4$ ?  
>  
> Remember that \*each\* output record (for Fortran sequential access, unformatted) has a  
> marker both at the beginning \*and\* the end specifying the record length (hopefully in  
> bytes, not "words").  
>  
> ASSOC is most often used for direct access, unformatted; but there's no reason you can't  
> use it here also.  
>  
>>> I assume here that the data is: DWORD|fltarr(n)|DWORD|fltarr(n)...  
>  
> Nope, it should be  
>  
> RECLEN1|fltarr(2,n)|RECLEN1|RECLEN2|fltarr(2,n)|RECLEN2....  
>  
> One of the reasons for the terminating record length marker (what I called "RecEnd" in the  
> structure above) is so that the Fortran BACKSPACE command works for sequential access  
files.  
>  
> cheers,  
>  
> paulv  
>  
> --  
> Paul van Delst        Ride lots.  
> CIMSS @ NOAA/NCEP/EMC                      Eddy Merckx

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