Subject: Re: idl writeu and fortran...
Posted by Paul Van Delst[1] on Fri, 11 Jul 2003 14:00:51 GMT

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j oishi wrote:
>
> hi,
>
> i know i'm stepping into murky waters here, but i have a question about
> using idl to write unformatted binary files for fortran. when i write a
> single record, ie
>
> openw,unit,'blah.dat',/f77_unformatted,/get_lun
> d=fltarr(10)
> writeu,unit,d
> free_lun(unit)
>
> and then read it in in f77, everything is fine. when i try to add multiple
> records to the same file, everything goes to hell:
>
> openw,unit,'blah2.dat',/f77_unformatted,/get_lun
> d=fltarr(10)
> e=fltarr(10,10)
> writeu,unit,d
> writeu,unit,e
> free_lun(unit)
>
> now, in this second example, i can read the first record out of blah2.dat,
> but trying to get e (the second record) out, causes the following error:
>
> data [14:14]$ ./readbin
> start: end of file
> apparent state: unit 12 named aa0000.D
> lately reading sequential unformatted external IO
> Abort trap
>
> i've tried this using two versions of idl on two different architectures,
> compilers, etc. (reading and writing, that is...not trying to cross
> platform with binary files)
>
> can anyone provide insight?

You need to post your Fortran code showing how you a) have dimensioned your arrays, b) how you've opened the file, and c) how you actually read the data. I use Fortran/IDL to write/read unformatted sequential and direct access files every day... all the time... no problems. Across many different unix platforms using different Fortran compilers too.

paulv

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