Subject: Re: Use IDL6.0 to read Fortran 90 written data Posted by Paul Van Delst[1] on Tue, 07 Aug 2007 12:39:08 GMT

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Nianming Zuo wrote:
> Dear all,
>
> I have sufferred file read/write problems between Fortran 90/95 and
> IDL 6.0.
>
> My Fortran compiler:
> Silverfrost ftn95, Compatable for Fortran 77/90/95
  http://www.silverfrost.com/12/ftn95/ftn95_feature_details.as p
>
  IDL 6.0 (Interactive Data Language, RSI)
>
  Both are in MS Windows XP(sp2) OS system.
>
> Write data to a file by use of Fortran:
> dimension dat(m, n)
> !...... Manipulations..., matrix dat(m, n) is float
> open(unit=11, file="file.dat", form="unformatted")
> write(11) dat
>! The above are really f77 code, so I guess it is related to Compiler.
>
>
> Read the data above by IDL6.0: (Way 1)
> dat = fltarr(m,n)
> openr, 1, 'file.dat'
> readu, 1, b, dat, b
>
> In "readu, 1, b, dat, b", the "b"s are used to skip the record area in
> Fortran data format.
> Unfortunately, it can not get the right result, and prompts "End of
> the file"
> I have also tried another way in IDL: (Way 2)
> dat = fltarr(m,n)
> openr, 1, 'file.dat' /f77_unformatted
> readu, 1, dat
>
> But, it prompts,
> "% READU: Corrupted f77 unformatted file detected."
> For the above Fortran code, when it is compied by g77, IDL can read it
> by Way 2.
>
```

- > So, I doubt that different compilers give different response to the
- > standard Fortran sentences?
- > Since there is no f90_unformatted or f95_unformatted, f77/f90/f95 will
- > produce the same record for the "open-write" sentence.

>

- > Now, how can I read ftn95 compiled output data by IDL6.0? I have
- > searched this forum, but without any desirable results.

Have a lookee at:

http://groups.google.com/group/comp.lang.idl-pvwave/browse_t hread/thread/513c48ceb53e6933/57c16d337a1aea99?lnk=gst&q =unformatted+endian&rnum=1&hl=en#57c16d337a1aea99

(Crikey that's a long link)

cheers,

paulv