
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 suffered 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.asp
>
> 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 compiled 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 look at:

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

(Crikey that's a long link)

cheers,

paulv
