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Subject: Use IDL6.0 to read Fortran 90 written data  
Posted by [Nianming Zuo](#) on Tue, 07 Aug 2007 07:07:13 GMT  
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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](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.

Thanks,

Tony

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