
Subject: Re: idl writeu and fortran...

Posted by [Paul Van Delst\[1\]](#) on Mon, 14 Jul 2003 13:46:52 GMT

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j oishi wrote:

```
>
>> 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.
> for example, the fortran code looks like:
>
> real d(10),e(10,10)
>
> open(12,file='blah.dat',form='unformatted')
>
> read(12) d
> read(12) e
>
> [stuff]
>
> stop
> end
```

Hmm. That should work just fine. My newsreader has lost your original message so I can't double check, but if, in IDL, you write a single precision real array of size 10 and then one of size [10,10] into a file opened using /f77_unformatted, it should work just fine.

Long shot #1:

Are you reading and writing on the same machine? If you're shifting the files from a PC to some sort of unix workstation (or vice versa), the different byte-sex may be the cause of the problem since the record length indicator at the beginning of each record will be some ridiculously large value.

Long shot #2

What Fortran compiler are you using? It may be you are using a compiler that defaults to record lengths measured in units of words (4 bytes) rather than bytes, e.g. like on an SGI. So the first record read is expected to be 160 bytes instead of 40 bytes. The next record length will be whatever the data value in "e" is at byte position 168 in the file which, being a real value converted to an integer, is likely to be a Bad Number.

paulv

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