Subject: Re: Binary Output/Input From/To IDL on PC??????
Posted by grunes on Tue, 26 Apr 1994 12:05:57 GMT

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In article <1994Apr26.080731.17544@nenuphar.saclay.cea.fr> buteau@bali.saclay.cea.fr
(A.Buteau 62 17) writes:
> From: buteau@bali.saclay.cea.fr (A.Buteau 62 17)
> Subject: Re: Binary Output/Input From/To IDL on PC??????
> Date: Tue, 26 Apr 1994 08:07:31 GMT
> Be very careful with the MS Fortran Unformatted Write.
> MS Fortran writes data with control blocks and this control blocks are not
> the same of other Fortran (Sun Fortran for example) or Pv Wave.
>
> I had difficulties reading with Pv Wave data written by MS Fortran Unformatted Writes . The
only solution I had was to carefully look in the MS manual how this Fortran writes data and control
blocks and then with Pv Wave make a byte per byte read of the>data to discard the control blocks
and to retrieve my data.
>
>

Ah, but under MS Fortran, one may read/write raw information (no control
blocks) with direct access statements, at least if the form is binary.
If you set the record length to 1, and increment the record # by the
number of bytes you have read or written, you will be OK. E.G.:

```
 integer*4 i,j
 open(1,file='filename',form='binary',access='direct',
    &   recl=1)
 irec=1
 read(1,rec=irec)i
 irec=irec+4
 read(1,rec=irec)j
 ...
```

As far as being the same as Sun Fortran, different brands of Fortran
for the Sun have produced different control blocks too.

On Sun Fortran, ordinary direct access opens:
```
 open(1,file='filename',form='unformatted',access='direct',
    &  recl=1)
```
will read or write raw data.