
Subject: Re: Read & write data files b/w IDL & Fortran 90
Posted by [Paul Van Delst\[1\]](#) on Fri, 09 Apr 2004 20:44:47 GMT
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Paul Van Delst wrote:

> bridgemat wrote:

>

>> I did try the /f77_unformatted keyword when writing the original file,
>> but I still couldn't get it to work. It shouldn't have anything to do
>> w/ using Fortran 90 instead of 77, right? Or am I doing something
>> altogether wrong in my Fortran program?

>

>

> Hello,

>

> I just grabbed both your codes and mucked about and had a "d'oh" episode.

>

> You create the data in IDL using INDGEN == 2 byte ints. In your f90 code
> you read the data with the default int which is 4 bytes. That's why
> you're getting the I/O error.

>

> Two options:

>

> 1) In IDL create the data like so:

> test=LINDGEN(3,4,5)

> And read it with your current f90 code.

>

> Or

>

> 2) Create the data file with your current IDL code and in Fortran90,
> define your integer arrays like so:

> INTEGER, PARAMETER :: ip = SELECTED_INT_KIND(4)

> INTEGER(ip), DIMENSION(3,4,5)::arr_in,arr_out

>

> The integer kind parameter from SELECTED_INT_KIND(4) should give you the
> kind type for a 2-byte integer.

>

> I prefer option (1) coz it's the simplest, but YMMV.

Apologies for my own followup, but in either option above you'll still need the
/f77_unformatted keyword in the IDL routine.

cheers,

paulv
