
Subject: Re: Binary Output/Input From/To IDL on PC??????
Posted by [HADFIELD\[1\]](#) on Wed, 20 Apr 1994 01:13:01 GMT
[View Forum Message](#) <> [Reply to Message](#)

In article <rlefevre.21.000AD756@tamu.edu> rlefevre@tamu.edu (Randy J. Lefevre) writes:

> I produce an array (145,73,10) in IDL. I open an output file (OPENW) and
> write out binary data (WRITEU). I try to read the binary output into MS
> Fortran PowerStation (on a PC). If I use a Fortran UNFORMATTED open, I get a
> wrong file type error in Fortran.

Not surprising. Fortran programs generally expect separator bytes at the beginning or end of each record in an "UNFORMATTED" file. WRITEU in IDL produces a "bare" format.

> If I use a PowerStation BINARY open, it
> works. However, only half the input array gets in, the other half is all 0s.

Is the number of bytes per array element the same in the IDL and PowerStation programs? If you wrote IDL integer (2 byte) data and tried to read it as Fortran INTEGER*4 data there would only be enough to fill the half the array. (Most Fortran compilers default to a 4-byte form for integers.)

What machine is IDL running on? Does it have the same byte order (little-endian) as the PC?

=====

Mark Hadfield	hadfield@greta.niwa.cri.nz
NIWA Marine (Taihoro Nukurangi)	NIWA.GRETA:HADFIELD
Wellington, New Zealand	
