
Subject: Re: Quick array question

Posted by [Liam E. Gumley](#) on Wed, 13 Sep 2000 07:00:00 GMT

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Ricardo Fonseca wrote:

> How does IDL store arrays in memory, does it use c style ordering or fortran
> style ordering?
>
> Here's my problem, I wrote a fortran program that writes a binary file to
> disk with an array (nx,ny,nz). Now when I read that file should I do
>
> data = fltarr(nx,ny,nz)
> readu, unit, data
>
> or should I do
>
> data = fltarr(nz,ny,nx)
> readu, unit, data
>
> and convert it later?

IDL uses FORTRAN-style ordering for arrays in memory. If you wrote the array in FORTRAN with dimensions (nx, ny, nz), then read it in IDL with dimensions (nx, ny, nz).

Cheers,

Liam.

<http://cimss.ssec.wisc.edu/~gumley>

Subject: Re: Quick array question

Posted by [Mark Hadfield](#) on Wed, 13 Sep 2000 21:30:13 GMT

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"Liam E. Gumley" <Liam.Gumley@ssec.wisc.edu> wrote in message news:39BFEB1.65DBBA99@ssec.wisc.edu...

> Ricardo Fonseca wrote:

>> How does IDL store arrays in memory, does it use c style ordering or
fortran
>> style ordering?

Just a quick incidental comment now that Liam's answered the actual question. I find it strange that people talk about the order in which the arrays are stored in memory (column-major, row-major and all that stuff). To my mind, it's not the storage order that differs between languages, it's the *order in which you write the subscripts*.

Just my NZ\$0.02 (approx US\$0.008) worth.

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