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:39BFEBA1.65DBBA99@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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