Subject: Re: Reading large arrays of complex numbers
Posted by David Fanning on Tue, 27 Sep 2005 03:45:06 GMT
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acquiredtaste7 writes:

> Hi, everyone. I am fairly new to IDL, and I have a problem that I
> can't figure out. I have some large 2D arrays of complex numbers that
> I need to read into a program. I found some code in this group for
> reading in complex arrays that works by reading the data into a long 1D
> array of real numbers, then reforming the data into a 2D array of
> complex numbers. Unfortunately, the arrays I'm dealing with are so
> large (2048x2048), that IDL won't create a 1D array of the necessary
> length (2*2048*2048). Can anyone tell me how I can read in my arrays?

I guess that's a bigger than normal array, but it doesn't seem
HUGE to me. In fact, I can easily create that size array on
my fair to middling machine. How exactly are you trying to do this?

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Reading large arrays of complex numbers
Posted by Mark Hadfield on Tue, 27 Sep 2005 04:32:55 GMT
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David Fanning wrote:
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>
>
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You (acquiredtaste7) could be running into the old
short-integer-overflow problem, eg:

IDL> x = complexarr(2*2048S^2)
Array dimensions must be greater than 0.
Execution halted at: $MAIN$

Try forcing your integers to be long:

IDL> x = complexarr(2, 2048L^2)

Or just set the DEFINT32 compiler option everywhere.

--
Mark Hadfield "Kei puwaha te tai nei, Hoea tahi tatou"
m.hadfield@niwa.co.nz
National Institute for Water and Atmospheric Research (NIWA)