Subject: Re: Giant arrays!

Posted by peter on Mon, 30 Jun 1997 07:00:00 GMT

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Ben Krasnow (kraz@wco.com) wrote:

- : Hi all! I am new to PV-WAVE, and I have a 'can it do this' question:
- : I made a simple program that loads a three dimensional(256x256x30
- : images) image array, selects one image, and then uses assoc to 'copy'
- : one of the images to a two dimensional array. Next I want to transfer
- : that into a one-dimensional array so I can use sort on it. the problem
- : is the one-dimensional array has to be 65536 elements, to hold the
- : single 256x256 image's data. PV-WAVE bombs, and says something to the
- : tune of 'too many elements'. Is there another way to do this, without
- : breaking the array up(I have to use sort on it)? Thanks

You are probably doing something like

b = fltarr(256*256)

Unfortunately, this bombs because 256 is interpreted as a short integer, then 256*256=0. If instead you do

b = fltarr(256L*256)

everything will work just fine. Wave, and IDL, can create arrays up to the memory size of your machine.

Peter

P.S. Anybody else want to join in a campaign for a system variable that switches the default literal integer to long rather than short? I've been bit too many times...

Subject: Re: Giant arrays!

Posted by Mary Jo Brodzik on Tue, 01 Jul 1997 07:00:00 GMT

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- > P.S. Anybody else want to join in a campaign for a system variable that
- > switches the default literal integer to long rather than short? I've
- > been bit too many times...

Yes, now that would be useful, I've been bitten a number of times, myself. And although I try to warn new IDL users, this problem continues to bite them, too!

--^^^^^^^ Mary Jo Brodzik
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