Subject: Re: memory issues redux Posted by R.G.Stockwell on Tue, 16 Nov 2004 18:08:08 GMT

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"Paolo Grigis" <pgrigis@astro.phys.ethz.ch> wrote in message news:419a3d56\$1@news1.ethz.ch...

- > Actually, you can put a smaller number of, say, floats in
- > an array than bytes

>

- > IDL> a=fltarr(1024L*1024*511); this is ok
- > IDL> a=fltarr(1024L*1024*512)
- > % Array has too many elements.
- > % Execution halted at: \$MAIN\$

>

- > So it looks like IDL internally adresses the memory in byte sized
- > units, indipendently from the type of data stored, and therefore
- > you can get up to 2 gigaelements for a byte array, but just 512
- > megaelements for a float array, 256 megaelements for a double
- > array etc.

>

- > Therefore the real limit for a single array is at 2GB, no matter
- > the array type.

>

- > Cheers,
- > Paolo

I'm a bit surprised to see that with floats. I was suspecting that complex variables were just 2 floats internally, not that everything was bytes. huh!

cheers, bob