
Subject: Re: Array has too many elements?

Posted by [Jamie](#) on Fri, 19 Dec 2003 09:23:17 GMT

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Take a look at the `idl/external/export.h` file that came with IDL as this defines most of the limits. You, of course, cannot change them but it is helpful to know what they are. In particular, getting beyond the 32-bit address limit is problematic and very OS dependent. Unless I missed something in version 6, IDL is still compiled as a 32-bit application.

See:

<http://www.rsinc.com/services/techtip.asp?ttid=2597>

<http://www.rsinc.com/services/techtip.asp?ttid=3617>

Or do a search for 'memory' in:

<http://www.rsinc.com/services/search.asp>

Jamie

On Fri, 19 Dec 2003, Jonathan Greenberg wrote:

> Followup question -- I've now come across a lot of discussion about windows
> boxes and memory problems under IDL (David Fanning, that's a terrific website
> you have (<http://www.dfanning.com/>)-- wish I had found it a few weeks ago!).
> Do these problems simply not exist on UNIX boxes (given ample amount of RAM
> + pagefile space)? I reprogrammed a slow but memory conservative version of
> this algorithm I'm working on using a bunch of for-next loops -- after all
> the discussion I've been seeing about how for-next loops stink, I recoded
> the algorithm using mostly matrix calls -- but of course I need more memory
> to do these, hence the array has too many elements error. I'm tempted to
> switch over to a slower UNIX box if this memory problem won't show up...
> thoughts?
>
> --j
>
> "Jonathan Greenberg" <greenberg@ucdavis.edu> wrote in message
> news:amyEb.209\$rx6.10@newssvr29.news.prodigy.com...
>> Is there some intrinsic limitation in how big an array can get in IDL?
> The
>> one in question was a `fltarr` of 170 x ~ 4,000,000 which gave me the "Array
>> has too many elements." error. I have about 2gb of memory on my machine,
>> and a 2 gb pagefile. Did I simply run out of memory, or is there
> something
>> else going on here?
>>
>> --j
