Subject: Re: array concatenation
Posted by lecacheux.alain on Fri, 03 Oct 2008 21:16:02 GMT
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On 3 oct, 17:15, Joost Aan de Brugh <joost...@gmail.com> wrote:
> On Oct 3, 1:19 pm, lecacheux.al...@wanadoo.fr wrote:
>
> Hello,
>
> Maybe it has something to do with the array descriptor. Anyway, in a
> large group concatenation is not the most elegant way. In Matlab (a
> language similar to IDL), you get a warning if you use such a
> construction. It has to do with the fact that if your array grows, you
> ask your system for more space. A safer way is to ask for enough space
> at once.
>
> afh = a few 100
>
> b = BytArr(afh*1000) ; Here is where you ask for a lot of space.
> for i=0,999 do begin
> ... compute a = array of bytes (a few 100) ...
> b[i*afh:(i+1)*afh-1] = a ; Now b does not grow in the loop
> end
>
> Or use a 2D array
>
> b = BytArr(afh,1000) ; Here, you ask for the space again.
> for i=0,999 do begin
> ... compute a = array of bytes (a few 100) ...
> b[*,i] = a ; Now b does not grow in the loop
> end
>
> Cheers,
> Joost
>
> b = Reform(b,afh*1000) ; Or b = Reform(b,N_Elements(b))
>
> It is a bit harder if you have different 'a few 100's for each
> iteration

Thanks for your reply. I agree with you that such a programming style
is far from ideal.
My point is that it likely can produce some not obvious array boundary
error (and subsequent IDL crash),
while largest used array sizes remain far below the maximum authorized
one.
Or I missed something ?
alx.