Subject: Re: resizing an array of structures (uugh) Posted by R.Bauer on Mon, 04 Jun 2001 18:22:14 GMT

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## Randall Skelton wrote:

```
> Hi all,
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- > I have an ascii file containing a few thousand lines with each individual
- > dataset comprising 10 lines of floats, ints, strings, etc. It seems
- > logical to read this in as an array of structures as each dataset contains
- > the same information, just different numbers.

>

- > My problem is that I don't know what the dimension of the array should be
- > before I start. Initially I just defined a large array and counted the
- > number of datasets for subsequent processing. However, as time progresses
- > and this code gets more use. I have to say that I really hate all the
- > excess array elements... I figured there would be an easy way to resize
- > the array of structures, but the best I can come up with is a double for
- > loop that is rather slow.

>

- > ; loop over the number of array elements
- > for i, n\_elements(array) do begin
- ; loop over the number of tags >
- for j, n\_tags(structure) do begin >
- resized\_array[i].(j) = array[i].(j) >
- endfor
- > endfor

>

- > Is there a \*faster\* or more elegant way to do this? Does IDL have a
- > \*fast\* resize command that can handle any type of array to simply adjust
- > the number of elements in the array without rebinning, or otherwise
- > changing the numbers?

- > Cheers.
- > Randall

Dear Randall.

IDL is an array orientated language. You should not use FOR statements for the incrementation of array indices.

Here is a short summary of the syntax

array=sin(findgen(100)) array[\*] all indices of array array[10:\*] index 10 to end of array array[[0,2,4]] index 0 and 2 and 4 of array array[0:counter-1] index 0 to counter-1 of array

array=[1,2]

array=[array,3,4] concatination of array

array=reform(array,[5,20]) reforms the vector to a 2-dim array

hope this helps a bit.

regards

Reimar

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a IDL library at ForschungsZentrum J�lich http://www.fz-juelich.de/icg/icg1/idl\_icglib/idl\_lib\_intro.h tml

http://www.fz-juelich.de/zb/text/publikation/juel3786.html