Subject: Re: Concatenating arrays across chosen dimension Posted by R.Bauer on Thu, 27 Jun 2002 07:30:04 GMT

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Dick Jackson wrote:

>

> Hi Reimar,

>

> Nice to see how similar our routines are!

>

- > If large arrays are involved, it looks like mine might be a bit quicker, since I
- > happened to do the concatenation as the vector of 'a' elements with the vector
- > of 'b' elements. There is no shuffling of data elements to be done, all of 'b'
- > is just put after all of 'a'. You used concatenation on the first dimension
- > (dimension 0) with 'c=[at,bt]', which requires IDL to do more work in composing
- > the result. Every row of the result takes elements from 'a' then 'b'.

>

- > The most efficient way would be to do the concatenation on the last dimension,
- > but the fact that we can't do this in general is the problem that got us here in
- > the first place!

Dear Dick,

both solutions showed how quite good our practice is and how easy it is to solve small or big problems in idl.

February last year I and Craig found out we have written nearly the same code for a replace_string routine.

With sharing of routines we always learn from each other. That's the benefit of this newsgroup!

best regards

Reimar

> "Reimar Bauer" <R.Bauer@fz-juelich.de> wrote...
>> Dick Jackson wrote:
>>>

>>> "Randall Skelton" <rhskelto@atm.ox.ac.uk> wrote...

>>>

>>> Ok... I have to ask. Is there actually a nice, clean way to concatenate

```
>>>> multidimensional arrays in IDL?
>>>>
>>> a = make_array(2,2,2,2)
>>> b = make_array(2,2,2,5)
>>>>
>>> data1 = [ [[[a]]] , [[[b]]] ]
>>>>
>>> Obviously the above fails, but what is the solution? Surely some
>>> combination of rebin/reform...
>>
>> Dear Dick,
>> we have written a general routine to concatinate on each dimension you
>> want.
>>
>>
  http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download
> /concatenate_arrays.tar.gz
>>
  http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download
> /concatenate_arrays.sav
>
> Cheers,
> -Dick
>
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    a IDL library at ForschungsZentrum Juelich
 http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml
______
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