
Subject: Re: Concatenating arrays across chosen dimension
Posted by [Dick Jackson](#) on Wed, 26 Jun 2002 20:53:07 GMT
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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!

"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 concatenate 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,

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-Dick

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