
Subject: Re: Limiting concatenation IDL 5.5
Posted by [Dick Jackson](#) on Fri, 28 Jun 2002 05:11:17 GMT
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"William Thompson" <thompson@orpheus.nascom.nasa.gov> wrote in message
news:afg4kr\$hl\$1@skates.gsfc.nasa.gov...

> Randall Skelton <rskelto@atm.ox.ac.uk> writes:

>

>> 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...

>

> How about

>

> c = make_array(2,2,2,7)

> c(0,0,0,0) = a

> c(0,0,0,2) = b

>

> Of course, you'd want to put this into a routine, with calls to
SIZE(), etc.

[Uh, David, make sure Bill gets a seat on the board of that IDL Experts'
group.]

Nice point, Bill! Your idea takes a bit of hackery, I'll take a swipe at
some of it:

```
concatSize = Size(a)
concatSize[dim+1] = concatSize[dim+1] + (Size(b))[dim+1]
c=Make_Array(Size=concatSize)
nDims=Size(a,/N_Dimensions)
aDims=Size(a,/Dimensions)
```

```
; This needs to be generalized for all
; possible values of nDims from 1 to 8, (4 assumed)
; either by a CASE statement or tricky
; string handling and Execute():
```

```
c[0, 0, 0, 0] = a
c[dim eq 0 ? aDims[0] : 0, $
```

```
dim eq 1 ? aDims[1] : 0, $  
dim eq 2 ? aDims[2] : 0, $  
dim eq 3 ? aDims[3] : 0]=b
```

Cheers,

--

-Dick

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