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Subject: Re: array concatenation in 2-D

Posted by [ben.bighair](#) on Fri, 04 Apr 2008 21:25:35 GMT

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On Apr 4, 3:31 pm, Jean H <jghas...@DELTHIS.ucalgary.ANDTHIS.ca> wrote:

> elwood wrote:

>> I have a loop which calculates two variables x[i] and y[i]

>

>> At each iteration of the loop I calculate

>> x and y

>> And I'd like to concatenate x and y into a 2 column, unknown numbers

>> of rows

>> output array.

>> I'd like to dynamically grow the output array at each iteration.

>

>> For example:

>> x=1 y=5 on first iteration

>> x=2, y=6 on 2nd iteration

>> I want an output array that looks like the below:

>

>> 1     5

>> 2     6

>

>> How do i achieve this without knowing the array size??

>

>> Tx!

>> -Elisha

>

> Elisha,

> You can concatenate the arrays, as you suggest:

>

> a = [[1,2],[3,4]]

> a = [[a],[5,6]]

> help,a

> ==>A INT = Array[2, 3]

>

> However, if you have many elements, this can be very resources

> consuming. Another option is to create a "big" 2\*n array, to

> progressively fill it, to keep a counter on the number of entries, and

> finally to cut what you haven't used.... and similarly, if your array is

> not big enough, add a large number of rows and keep filling them (use

> the same concatenation method as above)

>

Hi,

As a second to the method jean suggests, you might want to consider

using Mike Galloy's collections objects which are efficient resizable buckets for holding data. Check it out at ...

[http://michaelgalloy.com/2006/04/24/collection-package-mgarr aylist.html](http://michaelgalloy.com/2006/04/24/collection-package-mgarr%20aylist.html)

Cheers,  
Ben

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