Subject: Re: 2 dimensional array from 3 x 1dimensional arrays
Posted by peter.albert@gmx.de on Thu, 04 Aug 2005 14:22:45 GMT

Hi Martin,

although the way how exactly you would like to redistribute the
vectors' contents is not fully clear to me, I'll just assume the simple
case that e.g. Arr2[3] will become A[2, 3] etc., i.e. the fourth
element of the third vector will become the fourth element in the third
line of the new array. If that's not what you want, please excuse. It
is surely not what you write above, but I just don't see the system
behind that ...

Well, anyway, in that simple case, something like

IDL> a = [[v1], [v2], [v3]]

does the trick in case that each vector vi is a row vector of exactly
one dimension, i.e., "help v1" should give "... INT = ARRAY[n]"

In case the vectors are column vectors of the type [1, n], the above
line becomes

IDL> a = [v1, v2, v3]

Best regards,

   Peter

Subject: Re: 2 dimensional array from 3 x 1dimensional arrays
Posted by weitkamp on Thu, 04 Aug 2005 15:46:55 GMT

Martin,

You're not very specific about your input data, but from what you write
it seems like
- your data are regularly gridded,
- you know beforehand how many rows and columns your 2D array will
have,
- the values in Arr1 are monotonically increasing or decreasing,
- the values in Arr2 are monotonically increasing or decreasing
  for each set of triples with a given value of Arr1.

In that case, a solution of the problem might look like this:

```
nx = N_ELEMENTS(arr1)      ;  Number of columns in 2D array
ny = ...                   ;  Number of rows in 2D array

result = FLTARR(nx, ny)    ;  Make 2D array
result[*] = arr3           ;  Fill 2D array
```

Whether it is the shortest, fastest, most elegant, or whatever
solution, I don't know, but it should work.

Hope this helps,
Timm

--
Timm Weitkamp
ESRF, Grenoble, France

Subject: Re: 2 dimensional array from 3 x 1dimensional arrays
Posted by weitkamp on Thu, 04 Aug 2005 15:58:35 GMT
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Wait, wait, that was wrong. Oh darn. Make that:

```
ny = ...                   ;  Number of rows in 2D array
nx = N_ELEMENTS(arr1) / ny ;  Number of columns in 2D array

result = FLTARR(nx, ny)    ;  Make 2D array
result[*] = arr3           ;  Fill 2D array
```

And then there's a chance it'll work. Sorry about that.

And, by the way, would anyone know how to coax Google Groups into
putting a quote of the original posting into one's own message? And
putting my name instead of a mutilated version of my e-mail address?
(sigh)

Timm

Timm Weitkamp, ESRF, Grenoble (where they don't have news server)

Subject: Re: 2 dimensional array from 3 x 1dimensional arrays
Posted by James Kuyper on Thu, 04 Aug 2005 16:39:46 GMT
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weitkamp@esrf.fr wrote:

...

> And, by the way, would anyone know how to coax Google Groups into
> putting a quote of the original posting into one's own message? ...

For me, when I select "Show options" at the top of the message I want
to reply to, and then select "Reply", the quoted text of the message
I'm replying to appears automatically in my new message window.

> ... And
> putting my name instead of a mutilated version of my e-mail address?

Right now, as I type this, there's a section above my text window which
includes a line which says:

From: James Kuyper <kuyper@wizard.net> - change nickname

The "change nickname" is a link that leads to a window which I just
used to put in "James Kuyper". I didn't need to provide the
"<kuyper@wizard.net>"; Google adds that automatically. Note: if your
nickname is too long, you'll only be able to see the whole thing by
selecting the "show original" option (which will only appear after you
select "show options").

Subject: Re: 2 dimensional array from 3 x 1dimensional arrays
Posted by Timm Weitkamp on Fri, 05 Aug 2005 15:53:26 GMT
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James Kuyper wrote:
> weitkamp@esrf.fr wrote:
> ...
>> And, by the way, would anyone know how to coax Google Groups into
>> putting a quote of the original posting into one's own message? ...
>
> For me, when I select "Show options" at the top of the message I want
> to reply to, and then select "Reply", the quoted text of the message
> I'm replying to appears automatically in my new message window.

Thank you, James. It hadn't occurred to me that the "Reply" link at the
top might not do the same thing as the "Reply" link at the bottom of
the message. How foolishly naive of me. Sorry for not trying before
posting.

Timm

Timm Weitkamp
ESRF, Grenoble, France