
Subject: Re: How to append a multi dimensional array?

Posted by [Balt](#) on Wed, 05 Jan 2011 13:36:34 GMT

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Thanks Brian. This actually does work when I execute it manually on a small array:

```
IDL> array=[1,2,3]
IDL> vector=[4,5,6]
IDL> array = [[array],[reform(vector,3,1)]]
IDL> help,array
ARRAY      INT      = Array[3, 2]
IDL> print,array
   1   2   3
   4   5   6
```

That's exactly what I wanted. However.... when I build it into my code, it works for the first 2 concatenations, but on the third it fails, even though the array dimensions are all the same. I'm at a loss... here's the code, am I missing something?

```
; now read the baselines
FOR bl = 0, N_ELEMENTS(baselines) - 1 DO BEGIN
  READCOL,baselines[bl], ti, pi, FORMAT='D,D', /SILENT
  ; add a new column to the array for each baseline.
  ; each baseline data can then be accessed as:
  ; Phi[*,bl] <= this would return all phase information for baseline
bl
  IF bl EQ 0 THEN BEGIN
    Phasetime = ti
    Phi = pi
  ENDIF ELSE BEGIN
    Phasetime = [[Phasetime],[reform(ti,N_ELEMENTS(ti),bl)]]
    Phi = [[Phi],[reform(pi,N_ELEMENTS(pi),bl)]]
  ENDELSE
ENDFOR
```

It dies with this error when bl = 2:

% REFORM: New subscripts must not change the number elements in TI.

But all the dimensions look identical:

```
IDL> help,ti
TI      DOUBLE  = Array[718]
IDL> help,pi
PI      DOUBLE  = Array[718]
IDL> help,phasetime
PHASETIME  DOUBLE  = Array[718, 2]
```

```
IDL> help,phi  
PHI      DOUBLE  = Array[718, 2]
```

Confused...
