Subject: Re: Pasting subarray into array with compound assignment Posted by Vince Hradil on Fri, 20 Apr 2007 17:29:35 GMT

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Same for i=2...

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On Apr 19, 7:37 pm, "m.avd...@gmail.com" <m.avd...@gmail.com> wrote:

> i'm trying to use the advantage of "+=" when reshaping 2d array to 1d

> Can anyone tell me why the following produce different values?

> (difference in shape and type of the results is not a problem)

> a1=indgen(3,7) & for i=0,2 do a2[0,i*2]+=a1[i,*] & print,a2

> a1=indgen(3,7) & a2=intarr(3,11) & for i=0,2 do a2[i,i*2]=a1[i,*] & a2=total(a2,1) & print,a2

> thanks,

> max

Decompose the += into a2[0,2] = a2[0,2] + a1[1,*] (for i=1, for instance).

The RHS is 6 + a1[1,*] which is transpose(7,10,13,16,19,22,25). This then gets placed into the a2 array at position [0,2]
```

Subject: Re: Pasting subarray into array with compound assignment Posted by Vince Hradil on Fri, 20 Apr 2007 21:34:56 GMT View Forum Message <> Reply to Message

```
On Apr 20, 12:29 pm, hradilv <hrad...@yahoo.com> wrote:

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- > The RHS is 6 + a1[1,*] which is transpose(7,10,13,16,19,22,25). This
- > then gets placed into the a2 array at position [0,2]

>

> Same for i=2...

This will work: a1=indgen(3,7) & a2=intarr(3,11) & for i=0,2 do a2[0,i*2:i*2+7-1]+=a1[i,*] & print,a2

Subject: Re: Pasting subarray into array with compound assignment Posted by m.avdeev@gmail.com on Sat, 21 Apr 2007 13:21:17 GMT View Forum Message <> Reply to Message

Thanks a lot, Vince!

It works indeed, although i still don't understand why my code didn't. According to the manual, only a starting point is needed for pasting an array into another one...

Subject: Re: Pasting subarray into array with compound assignment Posted by Vince Hradil on Mon, 23 Apr 2007 16:25:27 GMT View Forum Message <> Reply to Message

On Apr 21, 8:21 am, "m.avd...@gmail.com" <m.avd...@gmail.com> wrote:

- > Thanks a lot, Vince!
- > It works indeed, although i still don't understand why my code didn't.
- > According to the manual, only a starting point is needed for pasting
- > an array into another one...

That's true - only a "starting point" is needed when pasting. The problem is that when you use the += assignment, the starting point is "translated" to a scalar, i.e. the value at that starting point. The sum of the scalar with the vector is then pasted at the starting point.