Subject: Re: Adding arrays of different dimensions
Posted by David Fanning on Fri, 19 Oct 2007 17:07:19 GMT
View Forum Message <> Reply to Message

ianpaul.freeley@gmail.com writes:

> I keep running into this and not being sure what the best solution is.
>
> I have a 2d array, and I'd like to add a 1d array to each row (or
> column).
> The easy stupid slow way:
> a=findgen(3,5)
> b=[1,2,3]
> for i=0,4 do a[*,i]=a[*,i]+b
>
> Perhaps a better way with no loops:
> a=findgen(3,5)
> b=[1,2,3]
> x=b#(fltarr(n_elements(a[0,*])) +1)
> a=a+x
>
> Is there a better way? Anyone care to generalize so I can optimally
> add 2d arrays into 3d?

I think a careful look at the array concatenation tutorial
would be helpful:

   http://www.dfanning.com/tips/array_concatenation.html

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")