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Subject: Re: Adding arrays of different dimensions  
Posted by [Jean H.](#) on Fri, 19 Oct 2007 17:17:46 GMT  
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ianpaul.freeley@gmail.com wrote:

```
> 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?  
>  
>  
> Thanks,  
> IP Freeley
```

```
Xsize = 2  
Ysize = 3  
Zsize = 4
```

```
a = indgen(Xsize, Ysize)  
b = indgen(Xsize) + 1  
print, a + rebin(b,Xsize, Ysize)
```

or in 3D:

```
a = indgen(Xsize, Ysize,Zsize)  
b = indgen(Xsize,Ysize) + 1  
print, a + rebin(b,Xsize, Ysize,Zsize)
```

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