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Subject: Re: How multiply two arrays in IDL?

Posted by [Dick Jackson](#) on Thu, 30 Apr 2015 15:39:16 GMT

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On Thursday, 30 April 2015 06:47:26 UTC-7, Madhavan Bomidi wrote:

> Hello,

>

> I have two arrays as below:

>

> a = [1, 2, 3, 4, 5, 6]

> b = [[3, 4, 5, 6, 7, 8], [9, 10, 11, 12, 13, 14], [15, 16, 17, 18, 19, 20]]

>

> When I multiply a and b, I get the following

>

> a \* b = [3, 8, 15, 24, 35, 48]

>

> instead of the following result

>

> [[3, 8, 15, 24, 35, 48], [9, 20, 33, 48, 65, 84], [15, 32, 51, 72, 95, 120]]

>

> Can anyone suggest me how I can obtain the result as desired?

>

> Thanks in advance,

> Madhavan

It looks like you want to extend a to match the rows of b, then multiply corresponding elements, like this:

IDL> Rebin(a, [6, 3]) \* b

3	8	15	24	35	48
9	20	33	48	65	84
15	32	51	72	95	120

... or generally:

IDL> Rebin(a, Size(b, /DIMENSIONS)) \* b

3	8	15	24	35	48
9	20	33	48	65	84
15	32	51	72	95	120

Hope this helps!

-Dick

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