Subject: How multiply two arrays in IDL?
Posted by atmospheric physics on Thu, 30 Apr 2015 13:47:24 GMT
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Hello,

I have two arrays as below:

When I multiply a and b, I get the following

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

instead of the following result

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

Thanks in advance, Madhavan

Subject: Re: How multiply two arrays in IDL? Posted by natha on Thu, 30 Apr 2015 14:54:39 GMT

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See matrix operators
http://www.exelisvis.com/docs/matrix\_operators.html

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:

... or generally:

Hope this helps!

-Dick

Dick Jackson Software Consulting Inc. Victoria, BC, Canada --- http://www.d-jackson.com