Subject: Re: Array Multiplication
Posted by lecacheux.alain on Sun, 25 Mar 2012 15:09:57 GMT
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On 25 mar, 11:22, IDL beginner <moxam...@gmail.com> wrote:
> Dear All,
>
> I have the following question. Let's say we have a vector A and matrix
> array B so that:
>
> A = [1, 2, 5, 2, 3]
>
> B = [[2, 4], [1, 9]]
>
> I want to multiply each element of the vector A with the matrix array
> B but WITHOUT using a FOR loop. Is that possible??? I need to do so in
> order to save execution time.
>
> The output result should be an array C with dimensions C[2, 2, 5, 1].
>
> Any help is appreciated.
>
> MD
>
>

C = reform(reform(B, 4, OVER=over) # A, 2, 2, 5)

Regarding any optimization, using over=1 is faster, but will change
dimensions of B; using over=0 will keep B unchanged, but a temporary
copy of B is created.
alx.