
Subject: Re: tensor multiplication

Posted by [Daniel Luebbert](#) on Thu, 18 May 2000 07:00:00 GMT

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Hi,

ok, thanks for the various answers.

In case anybody should be interested in the future,
I'll leave here a little program which I have now written
to perform a general multiplication of a
[N_1, N_2, ..., N_n]-array with a N_n -vector.
The result is a [N_1, N_2, ... , N_(n-1)]-array:

```
function tensor_product,a,b
```

```
sa = size(a)
```

```
a_matrix = reform(a,total_product(sa[1:sa[0]-1]),sa[sa[0]])
```

```
result = a_matrix # b
```

```
result = reform(temporary(result),sa[1:sa[0]-1])
```

```
return,result
```

```
end
```

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