
Subject: The usual vectorising headache

Posted by [Edd Edmondson](#) on Mon, 25 Apr 2005 13:44:00 GMT

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I've ended up with a situation I'm having trouble vectorising effectively.
The operation I want to do is a

$\text{transpose}(p) \cdot q \cdot p$

where p is $\text{Array}[4]$ q is $\text{Array}[4,4]$

Now I need to do this operation with a few tens of thousands of different p 's, so I've got actually got a p which is $\text{Array}[\text{bignum},4]$.

Obviously I want to vectorise it so I loop over 4s, rather than loop over bignums if I have to loop at all, but I don't want to have to completely specify the whole operation in individual 0,1,2,3 elements or the code looks pretty unreadable (but I'll do that if necessary).

Anyone got any clever tricks I might use?

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Edd
