Subject: Re: efficient matrix multiplication
Posted by rivers on Sun, 19 Mar 1995 00:41:09 GMT
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In article <D5LsIF.417@rockyd.rockefeller.edu>, orbach@rockvax.rockefeller.edu (Darren Orbach) writes:
> Greetings all.
>
>
> Here's the question: In order to extract the inner products from this
> big array, I've been looping over the z-variable and doing a "total()"
> operation: for i = 0, 99 do output(i)=total(productarray(*,*,i)).
> This process seems highly inefficient, and since I'm doing this
> hundreds of times every time I need the series of inner products,
> I'm looking for a better method. Is there a function analogous to
> total(), which can be directed to act over a specified dimension without
> looping over every element of that dimension? If it's at all relevant,
> I'm using PV-WAVE Advantage 5.0.

IDL's TOTAL routine can now do exactly what you want, i.e. total over one of the dimensions.

    result = total(array, dimension)

I don't know if PV-WAVE has this feature.

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