Subject: Re: multiplication by a diagonal matrix
Posted by Craig Markwardt on Fri, 03 Sep 2004 14:42:37 GMT

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lbusett@yahoo.it (Lorenzo Busetto) writes:

> Hi all,
>
>   I have the following problem: given a matrix A(n,m) and a vector of
> weighting factors w(n), i need to multiply each row of the matrix
> A(i,*)by the corresponding weighting factor w(i).

It sounds like you want to use a FOR loop. When N is small, the
number of loop iterations is small, so it will be fast. When N is
large, the number of loop iterations is larger too, but you also get
more done per iteration (N multiplies per iteration), plus you save
N*(N-1) elements of memory compared to the full matrix approach.

Craig

Good luck,
Craig

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