Subject: Re: Avoid loop in matrix operation
Posted by George N. White III on Fri, 07 Jul 2006 19:09:07 GMT
View Forum Message <> Reply to Message

On Thu, 6 Jul 2006, JD Smith wrote:

> So how about a new function, called APPLY/COLLAPSE/REDUCE/whatever,
> which takes an array, a generic function (which accepts an array or
> vector argument and returns an array/vector/scalar with one fewer
> dimensions), and a dimension over which to apply that function. Then
> it runs through in a *tight* loop, applying that function and
> collating the results into a return array, with a minimum of loop
> overhead.

Other matrix languages have had this for years -- how far behind can IDL
stay without going backwards?

People following this thread might want to look at Matlab's recent
implementation of new functions to vectorize operations over heterogeneous
arrays and structures, described in
< http://www.mathworks.com/company/newsletters/digest/2006/mar /vector.html>

--
George N. White III <aa056@chebucto.ns.ca>