Subject: Re: max/min over only one dimension?
Posted by Kevin Ivory on Fri, 23 Oct 1998 07:00:00 GMT
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Arel Weisberg wrote:
> Is it possible in IDL to find the maximum in each row of a 2-D array
> without a for loop?
>
> More generally is it possible to find extema in only one dimension of a N
> dimensional array without for loops?

I'll just cite a post to this newsgroup by Craig Markwardt on 18 Mar 1998:

> I have also had the need for totalling over selective dimensions
> (sometimes more than one dimension), and also MIN/MAX.
>
> Check out my IDL web page for CMAPPLY(), which can apply quite a
> number of operations to selected dimensions of an array. You can do
> this to more than one dimension at a time using a *list* of dimensions
> (similar to the DIMENSIONS parameter to MAKE_ARRAY or to REFORM).
>
> http://astrog.physics.wisc.edu/~craigm/idl/idl.html
>
> CMAPPLY supports more than just addition; it does:
>
> '+' addition '*' multiplication
> 'AND' logical AND 'OR' logical OR
> 'MAX' maximum 'MIN' minimum
>
> Where possible I avoid loops to improve performance, but your mileage
> may vary depending on the detailed use. [For example, for small
> arrays, your own loop may be faster].
>
> Craig
>
> --
> ---------- ----------
> Craig B. Markwardt, Ph.D. EMAIL: craigmnet@astrog.physics.wisc.edu
> Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
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