Subject: Re: Vectorize procedure
Posted by Kenneth P. Bowman on Thu, 10 Dec 2009 15:25:13 GMT
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In article
<041dea05-b2af-435a-b9e9-7ca360287c69@p35g2000yqh.googlegroups.com>,
 Romolo Politi <romolo.politi@gmail.com> wrote:

> Hi,
> I'm vectorizing a procedure in order to delete three for loops and
> increase the speed.
> I have to calculating the interpolation on a regular grid.
> newy=interpol(y,x,newx,/spline)
> in the loop manner for each index of the loop there are three
> different arrays .
> in the vectorize manner I have three 3D matrices, But I do not found a
> way to calculate the interpolation matrix.
> Any one have suggestions?
>
> Thanks
>
> Romolo

I'm afraid that you have not clearly explained your problem. Are you
trying to do 3-D cubic spline interpolation? As far as I know,
standard IDL does not contain a multi-dimensional spline interpolation
procedure, only the 1-D functionality available in INTERPOL, SPLINE, and
SPL_INTERP. You can do vectorized multi-dimensional *linear* interpolation
by using INTERPOLATE.

The Advanced Math and Statistics package (extra cost) includes the IMSL
spline interpolation functions. You can view the help files and
see if that is what you need.

  http://127.0.0.1:60523/help/index.jsp

Ken Bowman