Posted by Romolo Politi on Thu, 10 Dec 2009 18:03:02 GMT View Forum Message <> Reply to Message On 10 Dic, 16:25, "Kenneth P. Bowman" <k-bow...@null.edu> wrote: > In article > < 041dea05-b2af-435a-b9e9-7ca360287...@p35g2000yqh.googlegroup s.com >, Romolo Politi <romolo.pol...@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 Sorry for the not clarity. my situation is x=fltarr(3200,201,201)y=fltarr(3200,201,201)newx=fltarr(799,201,201) newy=fltarr(799,201,201) for i=0,200 do begin for j=0,200 do begin newy[*,i,j]=interpol(y[*,i,j],x[*,i,j],newx[*,i,j],/SPLine)

Subject: Re: Vectorize procedure

endfor endfor

I like vectorize this loop.

Thanks, and sorry again

Romolo Politi