Subject: Re: Rebin/Reform/Histogram
Posted by rogass on Tue, 21 Sep 2010 20:41:55 GMT
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On 21 Sep., 15:45, Mrunmayee <gaur...@gmail.com> wrote:
> One wrong statement in the loop:
>
>
>
>> for i = 0, n1-1 do begin
>>>> w = rebin(w1[*,i], nv, n2) ; Makes nvxn2 matrix
>> p = w*w2 ; Performs number 3 above.
>> SF[i,*] = dt # p
>> endfor

Hi, maybe you have to do this in 3D. It can look something like the following (no proof-just an idea):

sf = rebin(/sample,reform(/over,transpose(dt),1,n2,n1),nv,n1,n2) # $
(rebin(/sample,reform(w1, nv, 1, n1,/over),nv, n2, n1) * $
transpose(rebin(/sample,reform(w2, nv, 1, n2,/over),nv, n1, n2),
[0,2,1]))

However, if you have large matrices then you will run into memory problems. Just reduce redundancy and maximise the work within the loop. Then you won't "feel" the loop overhead. The 'over' keyword transforms the matrices fast in place - so keep it in mind if you like to use them later.

Regards

CR