
Subject: Re: Cleaver 2d reverse indicies?

Posted by [Chris\[6\]](#) on Mon, 03 Nov 2008 21:15:08 GMT

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```
> bins_mean = fltarr(size(nd, /dim))
> nx = (size(nd, /dim))[0]
> ny = (size(nd, /dim))[1]
> FOR i = 0UL, nx-1 DO BEGIN
>   FOR j = 0UL, ny-1 DO BEGIN
>     ind_ri = [i+nx*j]
>     IF ri[ind_ri] EQ ri[ind_ri+1] THEN CONTINUE ; nothing to do in
> this iteration
>     ri_sel = ri[ri[ind_ri]:ri[ind_ri+1]-1]
>     bins_mean[i, j] = mean(pxxm(ri_sel), /nan)
>   ENDFOR
> ENDFOR
```

Well, it seems like you can definitely eliminated the nested loop:

```
FOR i = 0UL, nx * ny - 1, DO BEGIN
  if ri[i] eq ri[i+1] then continue ; nothing to do here
  ri_sel = ri[ri[i] : ri[i+1] - 1]
  bins_mean[(i mod nx), (i / nx)] = mean(pxxm(ri_sel),/nan)
endfor
```

I've always wondered if there is a way to eliminated the first loop when using reverse indices, but haven't thought of / seen a way to yet.

chris
