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Subject: Re: FOR loops removal

Posted by [Wox](#) on Tue, 19 Aug 2008 13:43:40 GMT

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On Tue, 19 Aug 2008 05:38:50 -0700 (PDT), loebasboy  
<stijn.vdl@gmail.com> wrote:

```
> FOR l = 0, n*2 DO BEGIN
>   temp = 0
>   FOR i = 0, max_y-1 DO BEGIN
>     FOR j = 0, max_x-1 DO BEGIN
>       jtemp = j + l
>       jtemp2 = j + n
>       temp = temp + (arr[i,jtemp] * arr [i,jtemp2])
>     ENDFOR
>   ENDFOR
>   output[l] = temp/(max_x*max_y)
> ENDFOR
```

The code below is a start. Does this processing have a name? It feels familiar somehow. Btw, in IDL the first index of an array is the column and the second is the row. So in your case y are the columns and x are the rows. No problem with that off course, just check whether this is how you intended it.

```
n = 8
max_x = 5
max_y = 5
output = fltarr(2*n+1)
arr = findgen(max_y, 2*n+max_x) + 1

arr2=arr[0:max_y-1,n:max_x-1+n]
FOR l = 0, 2*n DO $
  output[l] = total(arr[0:max_y-1,l:max_x-1+l]*arr2)
output/=max_x*max_y
```

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