
Subject: avoiding for loops

Posted by [lbryanNOSPAM](#) on Thu, 12 Nov 1998 08:00:00 GMT

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I've had such good luck recently with y'all that I thought I'd send another one. Although this is a little less esoteric. I need to apply a median filter all the way to the edges of an image. So I came up with putting an edge around it the width of the filter then selecting out the original region. Sort of what convol does automatically.

The following code is what I came up with. It works, but it is clunky as heck. I know some of you guys are wizzes at getting rid of loops. Care to lend a hand?

p.s. the data I'm working on array 4000x512 arrays not 100x100!

Thanks!!!

```
n = 3
bottshade = shift(dist(100),10)+randomu(100,100,100)*5.
azrange = 100
shotrange = 100
temp = fltarr(shotrange +2*n,azrange + 2*n)
temp(n,n) = bottshade
for i = 0,shotrange -1 +2*n do begin
    temp(i,0:n-1) = temp(i,n)
    temp(i,azrange-1+n:azrange-1+2*n) = temp(i,azrange +n - 2)
endfor
for i = 0,azrange -1 +2*n do begin
    temp(0:n-1,i) = temp(n,i)
    temp(shotrange-1+n:shotrange-1+2*n,i) = temp(shotrange +n - 2,i)
endfor
temp2 = median(temp,n)
bottshade = temp(n:n+shotrange-1,n:n+azrange)

end
```

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