Subject: Re: write more efficient for loop Posted by Michael Galloy on Fri, 07 Aug 2015 13:50:07 GMT

View Forum Message <> Reply to Message

```
On 8/7/15 7:25 AM, g.nacarts@gmail.com wrote:
> Hi
>
 I used the Profiler, /SYSTEM & Profiler to identify which part of
> the code takes long time. I am using nested for loop (takes about 1950 sec).
>
>
 N = 215L
  Image_2 = make_array(N,N,/double)
>
>
> for i=0L, N-1 do begin
    for j=0L, N-1 do begin
 x = round(i + A[i, i])
 y = round(j + B[i, j])
  if (x ge 0) && (y ge 0) then begin
      Image_2[i,j] = Image_1[x, y]
  endif
   endfor
> endfor
> I was wondering if there is a more efficient way to write the above.
> I don't have a lot of experience in programming.
Is image 1 n by n also? Here's some totally untested code, but hopefully
it provides some inspiration:
x = round(rebin(reform(findgen(n), 1), n, n) + a)
y = round(rebin(reform(1, findgen(n)), n, n) + b)
ind = where(x ge 0 and y ge 0, count)
if (count gt 0) then begin
 image_2[ind] = image_1[x[ind], y[ind]]
endif
Mike
Michael Galloy
www.michaelgalloy.com
Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
```