
Subject: Re: ROI's and geographical data!

Posted by [David Fanning](#) on Thu, 05 Jun 2003 15:08:18 GMT

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Einar Einarsson (einare@hi.is) writes:

```
> The only solution I see is making a loop testing each point, something
> like:
>
>     IF roi->ContainsPoints(lon_fin[j], lat_fin[j]) GT 0 THEN BEGIN
>         dat_end[i]=dat_exp[j]
>         lon_end[i]=lon_fin[j]
>         lat_end[i]=lat_fin[j]
>         i = i+1
>     ENDIF
>
> wich is not very good inside a loop with huge data sets.
```

There is no reason to do this in a loop (unless you are consciously trying to slow everything down). The ContainsPoints function has already been vectorized. I would try something like this:

```
pts= roi->ContainsPoints(lon_fin, lat_fin)
inside_pts = Where(pts GT 0, count)
IF count GT 0 THEN BEGIN
    lon_end = lon_fin[inside_pts]
    lat_end = lat_fin[inside_pts]
ENDIF
```

Cheers,

David

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