
Subject: Easy question on for loops and if statements
Posted by [larosaant94](#) on Thu, 16 Jul 2015 17:15:09 GMT
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I am plotting the magnetic field longitude and using the ATAN function to do so. Though the ATAN function gives a result between the range of -180 to +180. I wish to use a range of 0 to 360.

A look at the code:

```
Bx = data(10,*)  
By = data(11,*)
```

```
longitude = 180/!Pi* atan(By, Bx)
```

```
FOR j=0,N_Elements(longitude)-1 DO BEGIN  
  IF longitude[j] lt 0 THEN BEGIN  
    longitude = 360 + longitude  
  ELSE  
    longitude = longitude  
ENDFOR
```

```
;Does the actual plotting-----
```

```
plot, time, longitude, yrange=[0, 360], yticks=4, yminor=6, $  
  ytitle='Lambda', position=[0.1, 0.24, 0.95, 0.31], xtickname=blnklb  
  plots, [min(time), max(time)], 180.0*[1,1], linestyle=2
```

I want any number less than 0 to get 360 added to it and then once this is completed plot all the data points including the ones above 0!

Thanks!
