
Subject: wrong results...

Posted by [elias](#) on Mon, 02 May 2005 13:49:00 GMT

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Hi,

The following problem probably has something to do with definitions of floating, integer etc, but I don't really know to solve it (although i am sure the solution will be simple in the end...).

I have a data file that, amongst others, contains some longitude columns. The longitude data is defined from -180 to 180 deg in this data file. For some consistency with some other analysis I did before, I want to convert it to 0-->360 deg.

So simply, I ask when it reads a longitude <0 to do: lon=360+lon

However, I am getting in the new data file created, values of longitude more than 600 sometimes.... I am not sure why this happens

Below I post this simple code.

~~~~~

PRO restruct, fil, output

```
;reads data file of moon l-shell
;crossings and restructures its data
;so that:
;Cassini and Moon longitude>0
;(Cassini-Moon) longitude>0
```

```
filetemplate=ASCII_Template(fil)
data=Read_ASCII(fil,Template=filetemplate)
```

```
crossings=n_elements(data.field1)
```

```
openw, lunit, /get_lun, output
```

```
for i=0L,crossings-1 do begin
```

```
    if data.field3[i] lt 0 then begin
        data.field3[i]=360+data.field3[i]
```

```
    endif
```

```
if data.field6[i] lt 0 then begin
    data.field6[i]=360+data.field6[i]

endif

dlon=data.field6[i]-data.field3[i]

if dlon lt 0 then begin
    data.field3[i]=360+data.field3[i]

endif

thisformat='(f14, 7f14)'
printf, lunit, data.field1[i], data.field2[i],$
    data.field3[i], data.field4[i],$
    data.field5[i], data.field6[i],$
    data.field7[i], dlon, format=thisformat

endfor

free_lun, lunit

end
```

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