
Subject: Re: Smooth function question

Posted by [zolile mtumela](#) on Wed, 15 Oct 2014 13:37:12 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Wednesday, October 15, 2014 3:11:05 PM UTC+2, zolile...@gmail.com wrote:

> Dear all,

>

> I got a 3D data. I applied a SMOOTH function like smooth(a,3), the plots look fine and when I print the number of elements on the screen are equal as the original data. But when wrote to a file I found that there is a missing element or number is not corresponding with original data. I checked using excel. I am a bit confused, I need some help. Any suggestion is very welcome,

>

> Thanks

>

> Zolile

openR, Lun, File,/Get_Lun

readf, Lun, str

while~eof(lun) do begin

readf,lun,date,time,Bx,By,Bz

print,date,time,Bx,By,Bz

Bx_array = [Bx_array, Bx]

By_array = [By_array, By]

Bz_array = [Bz_array, Bz]

endwhile

free_lun,lun

Bx_array=Bx_array[1:*

By_array=By_array[1:*

Bz_array=Bz_array[1:*

Nx = n_elements(Bx_array)

time = findgen(Nx)

time = time/225.

Ny = n_elements(By_array)

time = findgen(Ny)

time = time/225.

Nz = n_elements(Bz_array)

time = findgen(Nz)

time = time/225.

Smoothed1 = smooth(Bx_array,3)

Smoothed2 = smooth(By_array,3)

Smoothed3 = smooth(Bz_array,3)

```
NN1=n_elements(smoothed1)
NN2=n_elements(smoothed2)
NN3=n_elements(smoothed3)
print, smoothed1

print, NN1,NN2,NN3

openw,1,'dataxx.txt'
printf,1,transpose(smoothed1)
close,1
```
