Subject: outputting 2D arrays into a txt file Posted by Kemal Ramic on Mon, 13 Feb 2012 00:00:31 GMT

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Hello guys,

I am completely new to IDL. I have problems with outputting 2D arrays into a txt file. What i have to do is run the procedure a 1000 times, and the procedure is looking for a number of clumps hit in X-ray and optical area, and it goes through different inclination and azimuthal angle, and stores all the values into a 2D arrays, one for X-ray and one for Optical region. Here is my code:

function satellite, clumps, nasteps, nisteps, fnamex, fnameo

```
azi=0.0
observer_azi=0.0
ii = 0.0
observer i=0.0
lines x=fltarr(nisteps+1,nasteps+1)
lines o=fltarr(nisteps+1,nasteps+1)
: each row has same azi
for i=0L,nasteps-1 do lines_x[0,i+1]=(360.0/(nasteps-1))*i
for i=0L,nasteps-1 do lines_o[0,i+1]=(360.0/(nasteps-1))*i
: each column has same inclination from -90 to 90
for i=0L,nisteps-1 do lines x[i+1,0]=(180.0/(nisteps-1))*i-90.0
for i=0L,nisteps-1 do lines_o[i+1,0]=(180.0/(nisteps-1))*i-90.0
for j=1L, nisteps do begin
for i=1L,nasteps do begin
 intersect x=fltarr(2,50)
 intersect o=fltarr(2,600)
 print, 'Azimuth=', lines x[0,i]
 print, 'Inclination=', lines_x[j,0]
 line_sphere_test,clumps,lines_x[0,i],lines_x[j,
0],intersect_x,intersect_o
 print, moment(intersect_x[0,*])
 print, moment(intersect_o[0,*])
```

```
lines_x[j,i]=(moment(intersect_x[0,*]))[0]
 lines_o[j,i]=(moment(intersect_o[0,*]))[0]
 print, 'end of a step'
endfor
endfor
openw,1,fnamex
openw,2,fnameo
for j=0L,nasteps do begin
printf,1,lines_x[*,j]
printf,2,lines_o[*,j]
endfor
close,1
close,2
return, lines_o
end
and this is how i run the code 1000 times:pro run_satellite
N = 1000
root='datarun5_kemal'
nasteps=3
nisteps=3
for i=0,N-1 do begin
fxray=root+strtrim(i,2)+'_xray.txt'
fopt=root+strtrim(i,2)+'_opt.txt'
clumps=clumps_generator(1000,0.5,2,30,0.02,1.5)
test=satellite(clumps,nasteps,nisteps,fxray,fopt)
endfor
return
end
```

The problem that occurs is the way tables(arrays) are formated. First it doesnt output 1000 txt files for each, but it crams them up in a few, and then I cant figure out formatting at all. What i want is having them, in tables where i can later go through each column, and

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