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Subject: Re: Flow3 procedure and WHERE  
Posted by [adharac](#) on Sun, 23 May 2004 16:32:27 GMT  
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hello, So I followed the advice.... from the 32400 records that I initially had, now all my coordinate arrays (sx,sy,sz) and velocity arrays (vx,vy,vz) are of 521 records each (i.e. sxx, syy, szz and vxx, vyy and vzz).

However, I am getting an error message that I have not been able to fix...

```
IDL> .COMPILE "C:\RS\IDL55\lib\mycount.pro"  
% Compiled module: $MAIN$.  
IDL> .CONTINUE  
% Type of FOR statement index variable <No name> may not be changed.  
% Execution halted at: $MAIN$      309  
C:\RS\IDL55\lib\mycount.pro
```

How can I fix this?

Thank you in advance for any assistance that you can give me.

Regards,  
Adhara

Here is the new version of my code:

```
openr,q,'VOa.dat',/Get_Lun ;open files for reading  
A=fltarr(6,90*360L) ;create arrays to hold data in files  
readf,q,A ;read files into arrays  
Free_Lun,q ;close files and clear logical unit assigned to each  
file  
  
Vx=fltarr(360,360,90) ;create 3 dimensional arrays to hold vector  
data.  
Vy=fltarr(360,360,90) ;the indices will be Vx(x,y,z)  
Vz=fltarr(360,360,90)  
  
factor = 0  
For i = 0, 32399L Do Begin ;change here the number of records  
ifneeded.  
  
Vx(A(2,i)-1,A(1,i)-1,A(0,i)-1) = A(3,i)*10.0^factor  
Vy(A(2,i)-1,A(1,i)-1,A(0,i)-1) = A(4,i)*10.0^factor  
Vz(A(2,i)-1,A(1,i)-1,A(0,i)-1) = A(5,i)*10.0^factor
```

Endfor

Vxx=WHERE(Vx NE 0,count1)

Vyy=WHERE(Vy NE 0,count2)

Vzz=WHERE(Vz NE 0,count3)

sx=A[2,\*]

sy=A[1,\*]

sz=A[0,\*]

Sxx=where(Vxx)

Syy=where(Vyy)

Szz=where(Vzz)

vol = FLTARR(360, 360, 90)

WINDOW, XSIZE = 390, YSIZE = 400

CREATE\_VIEW, XMAX = 360, YMAX = 360, ZMAX = 100

Scale3, zr=[0,10], yr=[0,120], xr = [0,120] ;create 3D scaling  
system

Scale3, zr=[0,90], yr=[0,360], xr = [0,360]

Flow3, Vxx, Vyy, Vzz, SXX=Reform(sxx), SYY=Reform(syy),

SZZ=Reform(szz)

end

eoraptor@aol.com (Richard Hoffpauir) wrote in message

news:<77bd9c11.0405151543.e20d23b@posting.google.com>...

> I'm trying to help Adhara get her flow velocity data to plot using  
> FLOW3.

>

> FLOW3, Vx, Vy, Vz [,ARROWSIZE=value] [,/BLOB] [,LEN=value]  
> [,NSTEPS=value] [,NVECS=value] [,SX=vector,SY=vector,SZ=vector]

>

> She has 3 float arrays named Vx, Vy, and Vz that are of dimensioned  
> (90,360,360). Vx contains the magnitude of the flow vector in the x  
> direction, Vy is the magnitude in the y direction, etc.

>

> The actual values in the arrays Vx, Vy, and Vz are almost all zero.  
> The few values that are non-zero are +/- in the range of e-005.

>

> Since most of the values in her arrays are zero, should she be using  
> WHERE to extract out the non-zero magnitudes before calling FLOW3?  
> The arrays of SX, SY, and SZ in FLOW3 could be used to give the x,y,z  
> coordinates of the non-zero magnitudes, right?

>

> Thanks,  
> Richard