
Subject: Re: zero values with flow3

Posted by [adharac](#) on Sun, 23 May 2004 21:55:56 GMT

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Hello Craig, thank you for your advice using WHERE!

I fortunately got rid of the zeros at Vx, Vy and Vz. However, I want to get the respective coordinates at which the velocity components are not zeros (Sx,Sy and Sz).

How can I do this?

thanks

Adhara

```
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,*]

;here is my question...how to define these arguments!!!!
Sxx=where(Vxx NE 0)
Syy=where(Vyy)
Szz=where(Vzz)
```

end

Craig Markwardt <craigmnet@REMOVEcow.physics.wisc.edu> wrote in message news:<onbrkrrj28.fsf@cow.physics.wisc.edu>...

> adharac@hotmail.com (Adhara) writes:

>

>

>> Dear all,

>> I have a very large set of data in an array of 6 columns and 32400

>> rows. The columns are the coordinates x,y,z and the velocity

>> components V_x, V_y, V_z . There is a large number of these points that are

>> zero for v_x, v_y, v_z . However, I my macro is plotting these points.

>> How can I avoid this?

>

>

> You probably want to use WHERE to select the non-zero points.

>

> Craig
