
Subject: Re: zero values with flow3

Posted by [Craig Markwardt](#) on Thu, 13 May 2004 23:41:51 GMT

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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 Vx,Vy,Vz. There is a large number of these points that are
> zero for vx, vy, vz. 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

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: zero values with flow3

Posted by [adharac](#) on Sun, 23 May 2004 21:53:40 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:

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Subject: Re: zero values with flow3
Posted by [adharac](#) on Sun, 23 May 2004 21:55:56 GMT
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```
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