
Subject: zero values with flow3

Posted by [adharac](#) on Thu, 13 May 2004 21:57:05 GMT

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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?

Regards,

Adhara

P.D. Also...If I decide to get rid of the zeros, how can I define the array? I say this because, every "z" will have different points (x,y), at which (Vx, Vy, Vz) is not equal to zero.

Thanks for any advice, I know that you all are very helpfull !

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 = 1
```

```
For i = 0, 32399L Do Begin ;change here the number of records ifneeded.
```

```
;(0) first column of the array is z (0<z<90)
```

```
;(1) second column of the array is y (constant)
```

```
;(2) third column of the array is x (0<x<360)
```

```
; (3) fourth column of the array is Vx  
; (4) fifth column of the array is Vy  
; (5) sixth column of the array is Vz
```

```
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
```

```
sx=A[2,*]  
sy=A[1,*]  
sz=A[0,*]
```

```
vol = FLTARR(360, 360, 90)  
WINDOW, XSIZE = 390, YSIZE = 400
```

```
;CREATE_VIEW, XMAX = 360, YMAX = 360, ZMAX = 100
```

```
Scale3, zr=[0,90], yr=[0,360], xr = [0,360] ;create 3D scaling  
system  
Flow3, Vx, Vy, Vz, SX=Reform(sx), SY=Reform(sy), SZ=Reform(sz)
```
