
Subject: IDL QUESTIONS (INTERPOLATION)

Posted by [zolile mtumela](#) on Mon, 21 Nov 2011 13:59:24 GMT

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Hi all,

I have interpolated some data, which I think I did well, the data looks like this

time (s)	velocity
24785555	-8.90000
24785675	-6.90000
24785795	-5.00000
24785915	-15.4000
24786035	-1.80000
24786155	21.5000
24786275	-2.70000
24786395	1326.90
24786515	0.100000
24786635	69.6000
24786755	-624.900
24786875	263.700
24786995	30.3000
24787115	157.000
24787235	488.300
24787355	25.6000
24787475	40.6000
24787595	32.5000
24787715	21.2000
24787835	13.6000
24787955	92.4000
24788075	37.0000
24788195	7.50000
24788315	4.80000
24788435	8.30000
24788555	43.4000
24788675	26.2000
24788795	36.7000
24788915	17.6000
24789035	-39.2000
24789155	-76.5000
24789275	-31.7000
24789395	-31.3000
24789515	-20.0000
24789635	1.10000

I want to create time axis in hours, I need help on time conversion, I wrote a program like this

```
File = Dialog_pickfile(Filter = '*.txt')
```

```
;read the data
```

```
rows = File_lines(file)
data = Fltarr(2,rows)
openr,Lun,file,/Get_lun
ReadF,lun, data
b=floor(min(data[0,*])); start time
e = ceil(max(data[0,*])); end time
x = Scale_vector(Findgen(e-b+1),b,e)
y = interpol(data[1,*], data[0,*],x); interpolating data
;draw the plots
plot,data[0,*],data[1,*],linestyle=2      ; for original data
oplot,x,y,color=120                      ; newly interpolated velocity data
```

end

I want to covert that time in two hour in the plot.

Thank you in advance for ur time

Zolile
