
Subject: Type conversion error: Unable to convert given STRING to Long.

Posted by [johndraper1993](#) on Mon, 08 Dec 2014 18:46:41 GMT

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Hi, i'm currently having trouble with a particle error which i don't know how to solve.

Here is my code.

```
h=0.7
```

```
omega_m=0.3
```

```
zmax=6.
```

```
zmin=0.01      ;range of z
```

```
nz=100         ;# of plots for z
```

```
z=Grid(zmax,zmin,nz)
```

```
rho=dblarr(nz)      ;floating point array of nz zeros everything
```

```
Lmax=48.
```

```
Lmin=42.         ;range of L
```

```
n=100           ; # of points
```

```
Lbol=Grid(Lmax,Lmin,n) ;y axis and # of plots
```

```
epsilon=0.1      ; sets epsilon
```

```
c=3.e10          ;speed of light in cm/s
```

```
for k=0,nz-1 do begin
```

```
    LF=FLbol(TAG, Lbol, z(k)) ;luminosity function
```

```
    ;first integral in Luminosity
```

```
    yy=(1.-epsilon)/(epsilon*c^2)*LF*10.^Lbol*3.16e7/(2.e33) ;rho(z)/dt accretion rate multiply  
    this bit by dtdz divide by volume
```

```
    ;multiplied by seconds in a year divided by grammes in solar mass
```

```
    Int=int_tabulated(Lbol,yy) ;integrate over all Lbol for yy
```

```
    rho(k)=Int; ;finds accretion
```

```
endfor
```

```
res=9.777505969*(2./3/h/sqrt(1.-omega_m))*asin(sqrt((1.-omega_m)/omega_m)/(1.+z)^(3./2))  
;turns z into Giga years
```

```
psi=(.77e-5)*((21.86/res)^8.57)*exp(-21.86/res) ;spheroid SFR multiplied by scale factor 2.5*10^-3  
for shank 10^-4 ueda
```

```
phi=(1.8e-3)*((29.39/res)^5.5)*exp(-29.39/res) ;disc SFR multiplied by scale factor 2.5*10^-3
```

```
window,0
```

```
plot,res,rho*10000,/Ylog,XTITLE='Time (Gyr)',YTITLE='Log(dp/dt) or SFR (Solar Mass Mpc^-3
yr^-1)', XRange=[12,0],Yrange=[1e-4,10] ;plot z against phi
oplot,res,psi,linestyle=2 ;spheroid SFR
oband,res,0.75*(psi),1.25*phi,color=150
```

The error occurs on the last line, i have obtain the module oband from this website

<http://www.astro.washington.edu/docs/idl/cgi-bin/getpro/library28.html?OBAND>

I'm trying to use it to create an error region of +/- 25% on either side of my line.

Any help would be appreciated, Thanks John
