Subject: Advice on using julian day with the image function?
Posted by sally.benson2 on Thu, 09 Jul 2015 21:08:47 GMT
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Hi,
I have always used direct graphics but now I am converting over to the idl function graphics. I am trying to create a time by height plot of radar reflectivity. Here is the code I am using:

refd is radar reflectivity [time,height]
julidan_day is the time array in idl's julian day
height is the height array in meters

```
p3=image(refd,julian_day,height,position=reform(pos[0,*]),$
   /buffer,rgb_table=my_table,image_dimensions=[400,400])
```

The error I am getting is

```
   % QHULL:
         qhull precision error: 101 attempts to construct a convex hull
               with joggled input.  Increase joggle above 'QJ0.12'
          or modify qh_JOGGLE... parameters in user.h
```

The image function is trying to put my data on a regular grid using qhull but it is failing because the julian_day numbers are too big? How can I get the image function to use julian day? I like julian day for my time axis because it is easy to format it using xtickformat and xtickunits. I also tried seconds since 1970 but I got a similar error.

```
  p3=image(refd,seconds_1970,height,position=reform(pos[0,*]), $
   /buffer,rgb_table=my_table,image_dimensions=[400,400])
```

```
% QHULL:
         qhull precision error: 101 attempts to construct a convex hull
               with joggled input.  Increase joggle above 'QJ5.1'
          or modify qh_JOGGLE... parameters in user.h
```

Has anyone been successful in using julian day with the idl image function? Any help is greatly appreciated.
Thanks!
Sally