Subject: Interesting IDLgrContour Bug

Posted by davidf on Tue, 19 Sep 2000 07:00:00 GMT

Hi Folks,

I ran into an interesting little IDLgrContour bug today
that gave me a few hours of fun. Apparently, the
contour algorithm cannot see positive data that is less
than 1. As a result, it reports the contour range incorrectly.
Here is a very short example:

```
   ; Create test data.
 data = Dist(40)

   ; Normalize the Y values from 20 to 39 to be less than 0.
 data[*,20:39] = data[*,20:39]/Max(data)

   ; Create contour plot.
 x = findgen(40)
 y = findgen(40)
 theContour = Obj_New('IDLgrContour', data, Geomx=x, Geomy=y)

   ; Get the Y range of the data.
 theContour->GetProperty, YRange=theBadRange

   ; Print it. Expect 0 to 39.

 Print, theBadRange
    0.000000     19.8495
```

Whoops! Of course, this will cause the scaling to be
completely off when you go to put the plot into your
view.

The work around is to get the contour range from
the X and Y vectors. I don't think too many people
will run into this, but it can be distracting. :-)

I've tested this in IDL 5.3.1 and IDL 5.4 beta on
Windows NT 4.0.

Cheers,

David
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