



Bugs: dmcontour

Bugs

1. *Problems at the edge of images (01 Dec 2006)*

When a contour intersects the edge of an image, `dmcontour` draws a frame around the image and creates contours that are marked as "exclude" regions (i.e. have a red line through them when displayed in `ds9`).

Workaround:

If you are running into this problem, you have to make sure that your contours don't have a value that occurs at the edge of the image. The safest way to do this is to check the max value for the bounding rows/edges and then choose your contour level to be greater than that. It looks tedious, but you could script this if you are doing it often:

```

unix% dmlist image.fits blocks
-----
Dataset: image.fits
-----
      Block Name                                Type           Dimensions
-----
Block    1: CONVOLVE                            Image           Real4(263x218)

unix% dmstat image.fits"[#2=1]" median=yes centroid=no |grep max
max:          2.8171137093e-18                @:           ( 3856.13 4208.04 )

unix% dmstat image.fits"[#1=1]" median=yes centroid=no |grep max
max:          3.6766300528e-18                @:           ( 3840.33 4214.44 )

unix% dmstat image.fits"[#1=263]" median=yes centroid=no |grep max
max:          5.2055576098e-18                @:           ( 3866.53 4229.24 )

unix% dmstat image.fits"[#2=218]" median=yes centroid=no |grep max
max:          7.753583262e-18                @:           ( 3863.73 4229.64 )
  
```

So as long as the contour level is $> 7.75e-18$, you won't get the frame/exclude behavior.

This doesn't mean that you can't choose contours lower than the max value. It just means that by setting your bar above the highest, you know that you will not run into this bug.

Bugs: dmcontour – CIAO 3.4

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URL:
<http://cxc.harvard.edu/ciao3.4/bugs/dmcontour.html>
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