Hi everyone,

I'm stumped on this one. My aim is to "cut out" a region of an image (fits) and analyze only the data in that region. That works great when I use XROI and the statistics keyword. However, I would also like to use MOMENT to further analyze the data contained within the ROI. When I use MOMENT, however, the mean returned is very different than the mean returned by Statistics. Does anyone know why this is/how I could get MOMENT to analyze the data within the ROI?

Relevant snippet of code is below.

```
XROI, data, regions_out = thisROI, statistics=S, /block

mask = thisROI ->computemask(dimensions=size(data, /dimensions), mask_rule=2)

roiImage = data*(mask GT 0)
M = moment(roiImage)
tv, roiImage

PRINT, 'Count Min Max Mean StdDev'
PRINT, S
print,  '******************************************************** ****'
PRINT, 'Mean: ', M[0] & PRINT, 'Variance: ', M[1] & $
  PRINT, 'Skewness: ', M[2] & PRINT, 'Kurtosis: ', M[3]
```