Chandra X-ray Center

I/O Bugs: write

Bugs

1. *The `write` command does not record faked data in the MDL file.*
2. *The background model stack and background model components are not written to the MDL file when "`write mdl`" is issued.*
3. *If the output file already exists, "`write mdl`" won't clobber it.*

   Instead, it will write the MDL_Data and MDL_Models blocks to two separate files named "MDL_Data" and "MDL_Models", respectively. The behavior is the same regardless of the setting of `sherpa.clobber`.
4. *The command "`write model file.fits fitsimage`" does not work after "`notice all`" is issued (i.e. no file is created).*
5. *The `write` command automatically crops the image to the largest size that will still contain all noticed regions.*

   This means that all images to which the spatial filtering is applied, namely the data and the model image, are cropped upon write−out. Unfortunately this is not true for the exposure map image, which remains at its original size. The result is that it is difficult to work with the saved images, as they don't cover the same regions anymore.
6. *For 2D data, "`write model file.fits fitsbin`" creates tables with the same column name.*

```
unix% dmlist file.fits cols


--------------------------------------------------------------------------
Columns for Table Block file.fits
--------------------------------------------------------------------------

ColNo  Name                 Unit         Type           Range
   1   Bin                  none         Real8          -Inf:+Inf          none
   2   Bin                  none         Real8          -Inf:+Inf          none
   3   Counts               none         Real8          -Inf:+Inf          none
```

7. *`WRITE ... PHA` forces the output to be COUNTS, regardless of the setting of PLOTY.*

   Thus one cannot write out count rates in PHA−format files from Sherpa.