URL: http://cxc.harvard.edu/ciao3.4/releasenotes/ciao_2.2.1_release.html
Last modified: 11 August 2006

CIAO 2.2.1 Release Notes

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This CIAO release includes several new and updated instrument specific tools and data manipulation tools (e.g. acisreadcorr, dmjoin, mkrmf with weighting option, mkwarf, rmfimg, etc.), plus new and enhanced functionality within the SHERPA (ahelp/sherpa.html) modeling and fitting application and the CHIPS (ahelp/chips.html) plotting and imaging application. Editing capabilities have been added to PRISM (ahelp/prism.html) and the VARMM (ahelp/varmm.html) interface library has been extended.

Contents:

Tools

```
dmcopy / dmlist / dmstat
        − Fix for region problems with PIE and SECTOR filtering and
          some of the area problems.

mkpsf
        − Fix for autonaming for individually extracted images

dmextract
        − minor tweaks to wmap parameter comment (det=32).
        − Fix for crash if user supplied stack of background regions.
        − Users can now supply an additional filter to wmap that is
          indepent of filter applied to input file (eg create wmap
          in a specific energy range).
        − Fix for region problems with PIE and SECTOR filtering and
          area problems.

dmfilth
        − Fix for bug that gives wrong answers for non−square images

dmsort ** UPDATE **
        − Completely re−written and available now as a stable
          stand−alone tool.
        − No restriction on the number of input rows as before.
        − Fast for files that are 'almost' sorted.

dmtcalc
        − Fix for bug that prevented creating/updating columns with
          the same name as existed in input file(s).

dmmerge
        − Additional checks on the array size and dimensions for input
          files.

reproject_events
        − Speed improvements
```

```
psf_project_ray
        − Fix to work with recently updated focal length

sso_freeze
        − Fix to the TLMIN/TLMAX keywords that prevented the image in
          object−centered coordinates from being displayed properly in
          ds9

tgdetect
        − Changed default cellsize from 0 to 15 so that celldetect
          will not use the PSF library to determine cellsize. A fixed
          cellsize of 15 pixels has been found to be most effective
          for the majority of data processed.

add_grating_spectra
        − Fix for cleaning up temporary files at the end of the script.

psextract
        − Minor bug fix to deal with CONTENT header keyword to
          determine which type of aspect files were provided.
```

Sherpa

```
        − Background filtering has been improved to allow separate
        instrument models and independently grouped background data.
        − fakeit can now simulate data with a source model only, using
        the "dataspace" command.
        − Several minor plotting improvements have been implemented.
```

User Infrastructure

```
DS9
        − DS9 v2.0b4: supported in chips, prism, filtwin, and sherpa

Prism
        − Fixed several PRISM keyword viewing and editing bugs

ISIS
        − ISIS ots upgrade from v0.9.51 to v0.9.61

Documentation
        − XML documentation
        − server HTML page(s) verified W3C compliant
        − corrected problem display of minus/plus in position

mkoif
        − Corrected mkoif to disregard +x permission on input files

Setup Scripts
        − Improved message for unsupported platforms in ciao.*sh setup scripts
```

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