

Science Tools Update, December 9, 2008

Science Tools Working Group

Since December 4, the current release version of the Science Tools is **v9r9**. Jim reports that the new version has the changes in how diffuse response columns are named that were described last week. It also has fixes for Likelihood and gtselect to handle large (>2 Gbyte) files; see below. For the record, here are the [differences from v9r8p3](#).

If you have invested time in calculating diffuse responses already, you may want to hold-off on updating to v9r9, at least for running **gtdiffrsp**. Aside from **gtdiffrsp**, the new versions of tools will read the old format FT1 files, but the new **gtdiffrsp** cannot add columns old format FT1 files.

Data products: Still no news about the reprocessing of the FT2 files to remake them with the updated format.

Databases and related utilities

No news

Likelihood analysis

From Jim:

- modifications to enable large file-support recently added to tip [STGEN-83@jira](#) (Likelihood v14r0p2)
- added function to python interface to allow one to plot the model counts for a given source using a specified color (pyLikelihood v1r9p2, ST LATEST only)

GRB tools

No news

Pulsar tools

Masa reports that he is continuing to update the user-level documentation for the tools. Some of the updates are in the CVS repository at SLAC, but they are not yet in the User Workbook.

Observation simulation

No news

User interface and infrastructure (& utilities)

From Jim:

- gtselect
 - modifications to enable large file-support recently added to tip [STGEN-83@jira](#) (dataSubselector v6r3p5, fitsGen v4r2p1)

Note that there is still a bug in cfitsio that James was planning to patch (see jira comments).

From Eric W.: (on news from the FSSC)

Dave is working on test scripts and data that we will use for our brutal but thorough testing regime in preparation for our release on 15 February. John is collecting and integrating all of the various test programs from the SLAC-derived Science Tools code tree for use in a quick-check build-time test (i.e. a "hmake test" target). James has been executing a variety of bug fixes. And I've been running down problems getting pyLikelihood to build and install properly under the HEADAS system, which has forced me to take the plunge and learn a lot about how SWIG works when gluing C++ code to Python.

Source Catalog

Last week Toby presented news about resolving the **pointfit**-related issues that Jean noticed in the Catalog pipeline analysis of the 3-month data set. Elizabetta presented the current version of the source catalog database tables that are being designed and implemented. And we had some more discussion about source associations and identifications.