Chandra X-ray Center

Bugs: merge_all

merge_all is not a CIAO tool; it is a script which is available for download from the Scripts page.

A list of bugs fixed in version 3.5 of this script is available.

Caveats

1. ***dmmerge* issue: extra GTI blocks in merged event file** *(16 Apr 2007)*

   This caveat has been updated to use the subspace–editing capability added in CIAO 3.4. The previous title was "When two event files that have different ranges of exposure numbers are merged, the output file will have two GTI blocks."

   The dmmerge tool is called by the merge_all script. Details on the problem are available on the dmmerge bug page.

   Workaround:

   A "[subspace –expno]" filter was added to the dmmerge command in merge_all v3.6 as a workaround for this problem. Users no longer need to filter the data before using it as input to merge_all.

   Note that the addition of the subspace filter means that any user who intends to create lightcurves binned on exposure number from the merged output cannot use merge_all, since that information is eliminated from the subspace. (In general, lightcurves are binned on time.)

Bugs fixed in version 3.5 of this script

The following is a list of bugs that were fixed in version 3.5 of this script.

1. ***The script uses files with hardwired names in the /tmp directory.***

   This creates conflicts when multiple instances of merge_all are run, even for different sets of ObsIDs in different directories, and with appropriate PFILES environment variables set.

   The problematic filenames are:

   ```
   $ccdid\_asol.lis
   evt2.lis
   lookup.txt
   slang_$a.txt
   temporary_asol.lis
   ```

2. ***Failure if there is a file with the same name as the monoenergetic value*** *(09 Feb 2007)*

   To decide whether the "energy" parameter is a monoenergetic value or the name of a file,

`merge_all` tests to see if a file with that name exists. If you happen to have a file named as the value you want (i.e. energy 1 kev, file named "1" in that dir), the script will attempt to use the file. The script then fails at the `mkinstmap` step.