

URL: http://cxc.harvard.edu/ciao3.4/bugs/lc_clean.html Last modified: 23 March 2007

Bugs: lc_clean.sl

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

There are currently no known bugs.

A list of bugs fixed in CIAO 3.4 is included at the end of this document.

Bugs fixed in CIAO 3.4

The following is a list of bugs that were fixed in the CIAO 3.4 software release.

1. Use of time information by dmgti, which is called by lc_clean.sl, causes filter to appear shifted.

dmgti uses the TIMEPIXR and <u>TIMEDEL</u> keywords to modify the TIME column when creating GTI files. TIMEPIXR defines whether or not the TIME column should be taken to mean the beginning (TIMEPIXR=0), the middle (TIMEPIXR=0.5) or end (TIMEPIXR=1) of the bin. TIMEDEL records the time resolution of the data; this is the bin size between rows for a binned dataset or the resolution of the time stamp for event lists. Refer to "<u>ahelp chandra times</u>" for further details on the time information in Chandra data.

The way that dmgti uses the time information may result in a filter that appears shifted from the expected times for files where TIMEPIXR is not equal to 0. This is generally seen when creating filters for lightcurves.

Workaround:

To get the desired filter when working with lightcurves, rename the TIME_MIN column in the lightcurve input to dmgti to TIME. This means that the GTI filter will actually be determined using the TIME_MIN values.

Assume that the original lightcurve created by <u>dmextract</u> is called "lc.fits". This <u>dmcopy</u> command

1. copies the TIME column to TIME_ORIG

- 2. copies the TIME_MIN column to TIME
- 3. copies the rest of the columns ("*") to the output file as-is

unix%	dmcopy	"lc.fits[cols	TIME_	_ORIG=TIME	,TIME=	TIME_N	MIN,*]"	lc_cols_	_new.fits
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Then use the new lightcurve file as input to lc_clean.sl.

For more information on working with lightcurves, refer to the CIAO Timing Threads.

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