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## Bugs: tgextract

### Bugs

1. *If you have a multi-source observation, you cannot extract with the CALDB bow-tie region for any source other than the first (tg\_srcid=1).*

The current implementation of tgextract defaults to a box without any error or warning.

2. *DEATCHANS header keyword not written to Type 2 PHA files (01 Dec 2006)*

Type 2 PHA files produced by tgextract do not have the DEATCHANS header keyword. Since tgextract is used to create the pha2.fits files in SDP, this affects all Chandra data, whether you've reprocessed in CIAO or not.

This is not a problem for *Sherpa* users, but causes an error in *XSpec*.

#### Workaround:

If you are analysing data in *XSpec*, add the DEATCHANS keyword to the file header with `dmhedit`. The DEATCHANS keyword value equals the length of the COUNTS array, whose default is 8192. It is an arbitrary number for gratings – whatever you specified in the grid.

Use `dmlist` to find the size of the array:

```
unix% dmlist acisf00459N002_pha2.fits cols | grep COUNTS
      8  COUNTS[8192]  count  Int2(8192)  0:32767  -1  Counts array (a spectrum)
```

Then run `dmhedit`:

```
unix% dmhedit infile=acisf00459N002_pha2.fits filelist="" \
      operation=add key=DEATCHANS value=8192
```

Bugs: tgextract – CIAO 3.4