URL: http://cxc.harvard.edu/ciao3.4/bugs/dmextract.html
Last modified: 10 October 2007

Bugs: dmextract

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

Bugs

1. ***`dmextract` does not ignore pixels in an image with a value equal to the BLANK keyword.***
2. ***A parse error occurs when combining the grid syntax with use of the `bkg` parameter*** ***(01 Dec 2006)***

   For example:

```
unix% dmextract \
      infile="acis_evts.fits[pos=circle(25920,25920,300)][bin time=grid(src_bin100.lc[cols
      outfile=lightcurve.fits opt=ltc1 \
      bkg="acis_evts.fits[pos=circle(21184,30496,1200)]"
# dmextract (CIAO 3.4): dsDMEXTRACTREGPARSEERR -- ERROR: Failed to parse the supplied regi

# dmextract (CIAO 3.4): dsDMEXTRACTPROFILEERR -- ERROR: Failed to process some files.
```

   Even though the `grid` syntax is used in the input file filter, it is the parsing of the background file definition that causes a failure. Leave the `bkg` parameter blank and the command runs correctly.

Bugs fixed in CIAO 3.4

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

1. ***When creating a radial profile, `dmextract` includes a COUNT_RATE_ERR column in the output which is full of zeroes.***
2. ***Incorrect background exposure time with "opt=ltc1"*** ***(16 Aug 2006)***

   When `dmextract` is run with "opt=ltc1", the background exposure time in each bin is calculated incorrectly. The total LIVETIME is reported in the BG_EXPOSURE column. Since the BG_EXPOSURE is incorrect so is the BG_RATE, NET_COUNTS, NET_ERR, and the ERR_RATE. If a background exposure file (e.g. a DTF file) is supplied, it is also not applied.
3. ***Combining a weight with the grid syntax does not work correctly in `dmextract`***

   This is NOT fixed for the "bkg" parameter yet.

   For example:

```
unix% dmextract \
      "acis_evts.fits[bin time=grid(acis_lc3.fits[cols time_min,time_max]);energy]" \
      lcurve.fits op=ltc1
```

   The "`;energy`" combined with the "`grid()`" is not parsed properly; "`grid()`" by itself works fine.

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