![Chandra X-ray Center]

Bugs: dmtype2split

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1. **`dmtype2split` copies only the first component when splitting a vector column.**

   When breaking up a vector column, e.g.:

   ```
   unix% dmtype2split 'region.fits[cols x,y]' myout.fits
   ```

   dmtype2split copies only the first component of the vector:

   ```
   unix% dmlist myout.fits cols


   -----------------------------------------------------------------
   Columns for Table Block SPECTRUM
   -----------------------------------------------------------------

   ColNo Name Unit Type Range
      1 POS pixel Real8 –Inf:+Inf
   ```

   The POS column should be a vector, but only contains the 'X' column data.

2. **`dmtype2split` changes the CHANTYPE header keyword** *(31 Aug 2006)*

   If the CHANTYPE in the input file is PI, dmtype2split changes it to PHA in the output file:

   ```
   unix% dmkeypar pha2.fits CHANTYPE echo+
   PI

   unix% dmtype2split "pha2.fits[#row=9]" row_9.pha

   unix% dmkeypar row_9.pha CHANTYPE echo+
   PHA
   ```

   If the CHANTYPE is PHA in the input file, it is correctly propogated to the output.

3. **The BACKSCAL column is not preserved in output** *(31 Aug 2006)*

   If the input file has a BACKSCAL column (or columns), that information is not copied to the output file. Instead, the BACKSCAL value is added as a header keyword.