Why is the column moved to the end of the table when I try to update it in place?

Columns that existed in the input file that are modified in the output file are treated like new columns by dmtcalc and new columns are added by default at the end of the file. For example:

```
unix% dmlist input.fits cols
...
  10   energy                eV          Real4         0:  1000000.0        nominal energy of ev
  11   pi                    chan        Int4          1:1024              pulse invariant ener
  12   fltgrade                          Int2          0:255               event grade, flight
  13   grade                             Int2          0:7                 binned event grade
  14   status[4]                         Bit(4)                            event status bits
...

unix% dmtcalc infile="input.fits" outfile="output.fits" expression="energy=((float)pha)*0.1"

unix% dmlist output.fits cols
...
  10   pi                    chan        Int4          1:1024              pulse invariant ener
  11   fltgrade                          Int2          0:255               event grade, flight
  12   grade                             Int2          0:7                 binned event grade
  13   status[4]                         Bit(4)                            event status bits
  14   ENERGY                            Real8         -Inf:+Inf           User defined column
...
```

The name of the energy column in the output file is in upper case (no matter what its case is in the input file) since its values have been changed.

If you would like to reorder the columns after running the tool, dmcopy the file with a list of columns in the desired order (note that this method will only copy the specified columns):

```
unix% dmcopy "output.fits[cols time,pha,energy,pi]" reordered.fits

unix% dmlist reordered.fits cols


--------------------------------------------------------------------------------
Columns for Table Block EVENTS
--------------------------------------------------------------------------------

ColNo  Name                  Unit        Type          Range
   1   time                  s           Real8         84244214.7546979934: 84253882.0425609946
   2   pha                   adu         Int4          0:36855             total pulse height o
   3   ENERGY                            Real8         -Inf:+Inf           User defined column
   4   pi                    chan        Int4          1:1024              pulse invariant ener
```

although FITS files and the software that reads them generally are not supposed to care about the order of the columns.

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