Chandra X-ray Center

AHELP for CIAO 3.4 # dmmakepar Context: tools

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Synopsis

Write header keywords to a parameter file

Syntax

```
dmmakepar input output [template] [case] [verbose] [clobber]
```

Description

Writes file header keywords and the corresponding data types, values, and comments to an output parameter file. The units, if present, are added in brackets to the end of the comment. An optional template may be used to filter, reorder, or rename the keywords in the output file.

If the value or comment has a double quote (") in it, dmmakepar replaces it with a single quote (') and prints a warning. This needs to happen for the file to be useable by other tools, such as dmreadpar.

Note that if you run this tool with a template file and verbose greater than zero, you may see the message 'template keyword "mode" does not exist in file.' The output of the tool is unaffected and this warning may be ignored.

Example 1

```
dmmakepar in.fits out.par case=lower
```

The header of in.fits looks like:

```
0034  INSTRUME            ACIS          String        Instrument
0035  DETNAM              ACIS-7        String        Detector
0036  GRATING             NONE          String        Grating
```

so out.par looks like this:

```
instrume,s,h,"ACIS",,,"Instrument"
```

```
detnam,s,h,"ACIS-7",,,"Detector"
grating,s,h,"NONE",,,,"Grating"
```

Example 2

```
dmmakepar "fileone.fits,filetwo.fits,/some/path/filethree.fits"
"out_one.par,outdir/out_two.par,out_three.par"
```

This example uses the stack input feature to create three parameter files from three input files. The number of input and output files must be equal.

Parameters

name	type	ftype	def	min	max	reqd	stacks
input	file	input				yes	yes
output	file	output				yes	yes
template	file	input					yes
case	string		lower				
verbose	integer		0	0	5		
clobber	boolean		no				

Detailed Parameter Descriptions

Parameter=input `(file required filetype=input stacks=yes)`

Input file

Input FITS file, or stack of files (see "ahelp stack" for more information), with an optional FITS extension in brackets, e.g. "filename.fits[GTI2]". By default, the tool reads the header from the principal block (e.g. EVENTS, EVENTS_IMAGE), not the primary block.

Parameter=output `(file required filetype=output stacks=yes)`

Output parameter file or STDOUT

Name of the text file receiving parameter values, which must end in '.par'. When using a stack of input files, there must be an equal number of output filenames given.

Parameter=template `(file filetype=input stacks=yes)`

Template file

The template file is formatted as a CIAO parameter file and must end in '.par'. A stack of files may be used. If "NONE", all header keywords will be written to the output file. If a template file is given, only keywords which appear both in the file header and the template file will be written to the output file. If an empty or missing template file is specified, the tool will exit with an error and create an empty output file.

A short template file might look like:

```
CONTENT,s,h,"EVT1",,,"NEWNAME"
TELESCOP,s,h,"CHANDRA",,,""
INSTRUME,s,h,"ACIS",,,""
DETNAM,s,h,"ACIS-7",,,""
GRATING,s,h,"NONE",,,""
OBJECT,s,h,"0235+164",,,""
```

The first three fields are required, but only the first and last fields are used. The first field contains the keyword name and the last field contains an optional new name for the keyword in the output file. If the last field is "", the name of the keyword is the same in the output file as in the input file.

Parameter=case `(string default=lower)`

Output keyword case

Possibilities are "same", "upper", and "lower". If "same", the case of keywords in the input file will be preserved in output file. Otherwise, the case is forced to upper or lower.

Parameter=verbose `(integer default=0 min=0 max=5)`

Verbose level

Reports the input and output filenames, as well as any warnings.

Parameter=clobber `(boolean default=no)`

Overwrite existing output file

Specifies whether or not to overwrite an existing output file. If "no" and the output file exists, the tool exits with an error.

CHANGES IN CIAO 3.3

Parameter File

The header_filter parameter has been removed.

Bugs

See the bugs page for this tool on the CIAO website for an up–to–date listing of known bugs.

See Also

concept
>   parameter
modules
>   paramio
paramio
>   paccess, paramclose, paramopen, pget, pgets, plist_names, pquery, pset, punlearn

tools

[dmdiff, dmhedit, dmhistory, dmkeypar, dmreadpar, paccess, pdump, pget, pline, plist, pquery, pset,](#) [punlearn](#)

Parameter=case (string default=lower)