



 AHELP for CIAO 3.4

dmsort

Context: [tools](#)

Jump to: [Description](#) [Examples](#) [Parameters](#) [CHANGES IN CIAO 3.4](#) [Bugs](#) [See Also](#)

Synopsis

Sort a table.

Syntax

```
dmsort infile outfile keys [copyall] [kernel] [clobber] [verbose]
```

Description

Sort a table block on a given column or columns. Each sort key must be a column in the input block, optionally preceded by a "-" to indicate a descending order sort. If more than one key is given, the order of the keys indicates priority.

The result is that the rows of the block are sorted as specified. The data subspace and header are copied unchanged.

Example 1

```
dmsort "data1.fits[EVENTS]" data2.fits keys=-time clobber=yes
```

Sorts data in the EVENTS block by time column in descending order. Prints sorted block and copies all other blocks from data1.fits into data2.fits. Will overwrite data2.fits if it already exists.

Example 2

```
dmsort "data1.fits[EVENTS]" data2.fits keys=dety,-detx copyall=no
```

Sorts data in the EVENTS block first by dety column in ascending order and then by detx column in descending order. Prints sorted block from data1.fits into data2.fits, but does not copy any other blocks from data1.fits. Since the clobber keyword default is set to 'no', data2.fits will not be overwritten and sort results will not be saved if it already exists.

Parameters

name	type	ftype	def	min	max	reqd
<u>infile</u>	file	input				yes
<u>outfile</u>	file	output				yes
<u>keys</u>	string					yes
<u>copyall</u>	boolean		yes			
<u>kernel</u>	string		fits			
<u>clobber</u>	boolean		no			
<u>verbose</u>	integer		0	0	5	

Detailed Parameter Descriptions

Parameter=infile (file required filetype=input)

Input file and block

The input file and the block which needs to be sorted.

Parameter=outfile (file required filetype=output)

The sorted output file

Where the sorted block is to be written.

Parameter=keys (string required)

Specify sort keys

Used to specify sort keys. Each sort key must be a column in the input block, optionally preceded by a "-" to indicate a descending order sort. If more than one key is given, the order of the keys indicates priority.

Parameter=copyall (boolean default=yes)

Specify whether remaining blocks in the input file is to be copied.

Used to specify whether remaining blocks in the input file will be copied into output file unchanged or not. If "copyall=yes", remaining blocks in the input file are copied into the output file unchanged; otherwise they are omitted.

Note that while the time subspace *might* be stored in separate extensions (GTI blocks), it is usually part of the file subspace and will be included in the output file automatically (e.g. even if "copyall=no"). Occasionally using "copyall=yes" will result in duplicate GTIs being written to the output file.

Parameter=kernel (string default=fits)

Specify output file kernel

Used to specify the output file kernel.

Parameter=clobber (boolean default=no)

Clobber existing files?

Used to specify whether or not to clobber existing file that has the same name as the specified output file (only DM dataset will be clobbered).

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

Specify verbose level

Verbose can be from 0 to 5, generating different amounts of debugging output.

CHANGES IN CIAO 3.4

IRAF QPOE Files

Support for IRAF QPOE files has been removed from CIAO.

Bugs

See the [bugs page for this tool](#) on the CIAO website for an up-to-date listing of known bugs.

See Also

dm

[dmcols](#), [dmfiltering](#), [dmopt](#)

tools

[dmappend](#), [dmarfadd](#), [dmgroup](#), [dmgti](#), [dmjoin](#), [dmmerge](#), [dmpaste](#), [dmtcalc](#), [dmtype2split](#)

The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory.
60 Garden Street, Cambridge, MA 02138 USA.
Smithsonian Institution, Copyright © 1998–2006. All rights reserved.

URL:
<http://cxc.harvard.edu/ciao3.4/dmsort.html>
Last modified: December 2006

Ahelp: dmsort – CIAO 3.4