
NAME

fits-dump-hdr - dump FITS keywords

SYNTAX

fits-dump-hdr *options filename*

DESCRIPTION

fits-dump-hdr reads a header from a FITS file and outputs it in a variety of formats.

OPTIONS AND ARGUMENTS

Options are specified using a getopt style interface. Long names are available when preceded with double hyphens "--", in which case only the minimal number of characters are required. Options which take values may be separated from those values with the "=" character.

--fmt *format*

The output format. Run

```
fits-dump-hdr --fmt=list
```

to list the available formats. If no format is given, and a filename is specified with **--output**, the filename extension is used to determine the output format.

--ext|-e *extension*

The extension to dump, either an integer or an extension name.

--key|-k *spec*

Specify a keyword pattern or filter. This option may be repeated, and allows one to build up a complex set of filters.

fits-dump-hdr process the **--key** options in sequence, building up a list of header keywords. Specifying a pattern adds it to the list. Filters are used to remove items from the list.

If the first **--key** option specifies a filter, the list is initialized with all of the possible header keywords. Otherwise, keywords are added by specifying keyword patterns.

A pattern may have one of the following forms:

keyword

The exact name of the keyword. Case is not significant.

```
-k tstart -k TSTOP
```

glob

A wildcard expression (also known as a glob) as used by shells.

```
-k 'tst*'
```

/regular expression

A Perl regular expression.

```
-k '/tst.*'
```

A filter is a pattern which begins with a - or +. If -, items which match the pattern are removed. If a +, items which match the pattern are kept (all others are removed).

Keywords are case insensitive. By default all interesting keywords are shown. See also

`--show-uninteresting.`

`--define|-D key=value key:attr=value`

Add extra fields to output streams supporting named fields (e.g. `rdb`, `json`, `yml`). This may be repeated.

If `attr` is specified, it is passed on the formatter as is. See the formatter documentation for more information.

`--show-uninteresting | -U`

By default "uninteresting" (i.e. `COMMENT` and `HISTORY`) keywords are not output if the output keyword list is initially populated with all of the keywords in the FITS header. Specifying this option enables output of these keywords.

`--lc`

Lower-case the keyword names upon output.

`--pfx string`

A string with which to prefix output keywords.

`--output|-o output file`

Where to write the output. By default it is written to the standard output stream.

If the file name contains a `%` it is assumed to be a `sprintf` compatible format and is used to create a new file for every HDU, with the zero-based HDU index as the formatted data. For example

```
foo_%0d.rdb
```

Would generate

```
foo_01.rdb foo_02.rdb ...
```

If `--fmt` is not specified, and `--output` is, the extension of the specified file is used to determine the output format.

`--version`

Output **fits-dump-hdr**'s version information and exit.

`--help`

Output abbreviated help information and exit.

`--man`

Output the full manual and exit.

FORMATTER NOTES

rdb

Attributes attached to extra fields specified by the `--define` option are interpreted as `rdb` column types (e.g. `N`, `S`). To insert an extra numeric field named `OBSID` into each record:

```
fits-dump-hdr -f rdb -D OBSID:N=22 ...
```

AUTHORS

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