How to migrate catalogues from ASCII to FITS format

Matheus Guilherme Brito - 2022-04-20 - Comments (0) - Phase 3 FAQs

Q: How to convert an ascii file (table) to a fits file?

A: You can perform the following steps:

1. Create a comma separated ascii table. For example if the table (cat1.txt) has *n* columns separated by white spaces:

   ```
   awk '{print $1,","$2,","$3,","$...,","$n-1,","$n}' cat1.txt > cat2.txt
   ```

2. Convert the new table (cat2.txt) into a fits file using the **stilts** tool:

   ```
   stilts tcopy cat2.txt cat.fits ifmt=csv ofmt=fits-basic
   ```

   Usage:

   ```
   stilts <stilts-flags> tcopy ifmt=<in-format> ofmt=<out-format> [in=]<table>
   [out=]<out-table>
   ```

3. Add the missing header keywords according to the ESO Science Data Products Standard.

The STIL Tool Set can be downloaded from:

http://www.star.bris.ac.uk/~mbt/stilts/#install

For more information please check the following documentation:

http://www.star.bris.ac.uk/~mbt/stilts/
http://www.star.bris.ac.uk/~mbt/stilts/sun256/tcopy.html

- Tags
- FAQ
- Phase 3

Related Content

- Instrument specific keyword value hints
- How to convert a spectrum to the required binary table format
- How to rename downloaded products to their original file names
- How to transfer files to the FTP area