addattribute

August 15, 2005

Abstract

Add attributes to a dataset

1 Instruments/Modes

Instrument	Mode
All	All

2 Use

pipeline processing	yes
interactive analysis	no

3 Description

This task adds attributes to a dataset (ie. adds keywords to the FITS primary header). Optional comments can also be supplied.

4 Parameters

This section documents the parameters recognized by this task (if any).

Parameter	Mand	Type	Default	Constraints
set	yes	dataset		

Name of the dataset

attributename	yes	string		

A list of attribute names

(eg. attributename=‘ “att1” “att2” ..’).

attributetype	yes	string		real—integer—string—boolean

A list of the attribute types, one for each attribute name

(eg. attributetype=‘ “string” “real” “string” ..’).

withattributecomment†	no	boolean	n	

A list of switches to determine whether a comment is added

† Be careful with this switch when used with a list of attributes. It is only optional for elements occuring after the last attribute with a supplied comment

(eg. withattributecomment=‘y n n y’).

attributecomment	no	string		

Comments to be added to attributes, one for each ‘y’ in the withattributecomment list

(eg. attributecomment=‘ “comment1” “comment2” ’).

realvalue	no	real		

A list of values, one for each real attribute

integervalue	no	integer		

A list of values, one for an integer attribute

stringvalue	no	string		

A list of values, one for a string attribute

booleanvalue	no	boolean		

A list of value, one for a boolean attribute

5 Errors

This section documents warnings and errors generated by this task (if any). Note that warnings and errors can also be generated in the SAS infrastructure libraries, in which case they would not be documented here. Refer to the index of all errors and warnings available in the HTML version of the SAS

documentation.

uktype *(error)*
Attribute type unknown

parmlist *(error)*
Parmater lists do not agree

6 Input Files

1. Input dataset (modified in-situ)

7 Output Files

1.

8 Algorithm

```
   subroutine addattribute

Get number of attributes

Validate parameter lists

Open dataset

Foreach attribute
Get attribute name and type

Get comment (if required)

Fetch appropriate value and write to dataset

Close dataset

   end subroutine  addattribute
```

9 Comments

- This task will be used in the pipeline to add AMS keywords to FITS files.

10 Future developments

References