

ingestsrcnames

June 2, 2019

Abstract

This task extracts catalog source names (IAUNAME), DETID, SRCID, for a given observation from the source catalogue (such as, 2XMM) and ingests them, as well as add INCATFLG, into the observation-summary source list.

1 Instruments/Modes

Instrument Mode EPIC Imaging

2 Use

pipeline processing	no
interactive analysis	yes

3 Description

The task **ingestsrcnames** prepares the source-list file to be used as the input file for the task **makethumbs**. When a user wants to run **makethumbs** multiple times for one observation using the same input sourcelist and catalogue, preprocessing the source-list file with this task is likely to speed up the process by **makethumbs** considerably or possibly dramatically.

In practice, this task reads both a source list file in each observation (as is included in the distribution of the pipe-line processing) and an external catalogue file in the format of the 2XMM catalogue, matches them, then outputs the modified source list file that contains the new columns of IAUNAME, DETID, SRCID and INCATFLG. Among these the first three will be just propagated from the catalogue to the output file, whereas the last one, the boolean column of INCATFLG, indicates whether the source (in the output, as well as, input source lists) is included in the catalogue (TRUE) or not (FALSE).

The matching between the sources in the source list and external catalogue is based on the columns (or header attribute) of OBS_ID and SRC_NUM.

For further detail, please refer to the reference of **makethumbs**.



4 Parameters

	÷		y this task (if any	
Parameter	Mand	Type	Default	Constraints
srclisttab	yes	table		
Source list (eg., P012345	6789EPX000O	BSMLI0000.I	FIT:SRCLIST) in	the observation.
cattab	yes	table		
Catalogue table name (e	g., 'cat2xmm.fi	ts:SRCLIST').	
0	<i>,</i>		/	
withnewsrclist	no	boolean	true	
Whether to output a new	v source list file	e (True), or c	verwrite the input	source list file (False).
newsrclistset	yes	file		
Mandatory if withnewsr	clist is true.	Filename of t	the output (new) s	source list file.
			· · · · · · · · · · · · · · · · · · ·	
withobsid	no	boolean	false	
True if you want to expli	citly specify th	e OBS TD of t	the observation, of	herwise False.
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obsid	no	int		

Mandatory if withobsid is true. Integer expression of OBS_ID.

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.

WrongDataTypeObsId (error) OBS_ID type is wrong.'

tooManyMatches (error) More than one entry was found for the source in the catalogue.

NotFoundObsIdInHeader (error) OBS_ID (or alike) is not found in the header of the input source list.

NotFoundColNameXXXXX (error) Column name XXXXX is not found.

NoSrcTable (warning)

(warning)

corrective action: corrective action: Table (extention) name of the catalogue is given and no table is found in



the first extention or before.smallerDimensionForSumIaunameIAUNAME in output source list may be trimmed.

noMatchingSrc (warning)

corrective action: No matching is found for the source between the source list and catalogue.

6 Input Files

- 1. Source list
- 2. External catalogue

7 Output Files

1. Modified source list

8 Algorithm

9 Comments

• Like many other SAS tasks, --noclobber option is not recommended to specify when you run this task. It may always fail, if it is specified. It is rooted in one of the basic SAS libraries (DAL) and there is no plan of it being fixed in the foreseeable future.

References