

# multiespecget

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#### Abstract

Creation of source and background spectra and associated ARF/RMF for multiple event lists

## 1 Instruments/Modes

Instrument	Mode	
EPIC MOS	IMAGING	
EPIC PN	IMAGING	

### 2 Use

pipeline processing	no
interactive analysis	yes

# 3 Description

multiespecget is a especget wrapper. This task has as input a set of EPIC event lists and a source and background expression in (RA,DEC) and it runs especget for each of the input files, produncing a set of spectra, responses and effective area files.

The withmultiEPICspec allows users to run epicspeccombine task to combine all the output files, spectra, responses and effective area, into a three individual files: source and background spectra and response files.

The procedure to combine the spectra files and the effective area and response matrices files it is explained in the SAS thread: "Combining the spectra of the 3 EPIC cameras" http://xmm.esac.esa.int/sas/current/documentation/threads/epic\_merging.shtml

### 4 Parameters

This section	documents	the	narameters	recognized	by	this to	ask	(if any)	

Parameter	Mand	Type	Default	Constraints

## XMM-Newton Science Analysis System

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tables yes tables event lists table specispecifier fier

A set of tables specifier which must point to an event list table in a data set. It must be in either of the forms setname or setname:tableid where setname must be the name of an existing data set and tableid the name of a table in the specified data set. If the first form, setname, is used, the event data are sought in the *first* block of the named data set.

calindexsets no	o e		
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List of ccf files.

srcexp			yes	string	

Expression for extracting the source events.

backexp	yes	string	

Expression for extracting the background events.

expression	no	string	valid filter expression
			according to <b>selectlib</b>
			syntax rules

This is the expression controlling the filtering process.

onlysingleevents	no	boolean	no	
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Whether to create spectra only for single events.

withmultiEPICspec	no	boolean	no	

Whether to combine all the output spectra (src and bkg) in one file and combine responses and effective are files into one file.

### 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.

#### pairing (error)

The number of events files does not match the number of calibration index files; there must be a one-to-one pairing.

SAS\_CCF\_Failed (error)

Error trying to change the SAS\_CCF environment variable

ProductExtractionFailure (error)

Spectral product accumulation failure (error running especget).

6 Input Files

1.

7 Output Files

1.

8 Algorithm

9 Comments

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References