



make_mask

June 2, 2019

Abstract

This task is called by *cheese* in *mode=2* to create a cheese mask from the filtered source list.

1 Instruments/Modes

Instrument	Mode
EPIC	Imaging

2 Use

pipeline processing	no
interactive analysis	yes

3 Description

make-mask is called by *cheese* to create a cheese mask from the filtered source list.

Warning and requirements: *make_mask* is part of the *esas* package integrated into SAS, but it is limited to work within the *esas* data reduction scheme. This is specially true wrt the structure and names of the input files. In particular, **make_mask** assumes that another task from the package, *mos-filter* / *pn-filter*, has been successfully run for the exposure to be used.

4 Parameters

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

Parameter	Mand	Type	Default	Constraints
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inimage	yes	string	inimage.fit	
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Input event image corresponding to the exposure.



inmask	yes	string	inmask.fit	
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The exposure mask.

outmask	yes	string	outmask.fit	
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Output file name for the cheese mask.

reglist	yes	string	reglist.fit	
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The filtered source region list.

clobber	no	boolean	yes	T/F
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Clobber existing files?

5 Input Files

User-specified event image, mask, and region list.

6 Output Files

mosprefix-cheese.fits - The output file name is an input parameter to the program, however as *make_mask* will typically be called by *cheese* or *cheese-bands* the name will be as above where *prefix* is the standard definition (e.g., 1S001 for the MOS1 S001 exposure)

7 Algorithm

8 Comments

References